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The Global Language of Business

Integrated Guideline Part 3:

Product Identification with GTIN

Supply Chain Management for Fresh Fruit and Vegetables

in collaboration with

Frug i Com
Foundation Platform Fresh Chain Information

Version 2.0 (2023)

Document Summary

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Consulted Literature

Version	Document	Release Date
1.0	GS1 Global – Fruit & Vegetable GTIN Assignment Implementation Guide	2014
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2.0	GS1 US & Canada – Implementation Guide for Fresh Produce Data Standards and Synchronization	2013
	PTI – Best Practices for Preparing to Assign GTINs	

Partners involved in the development of this document:

GS1 in Europe

GS1 in Europe is a collaboration of 46 GS1 member organisations and leads the creation and implementation of harmonised, user-driven solutions for improving the supply and demand chain of European companies. Further information on GS1 in Europe and the activities in the area of fruit and vegetables can be obtained from www.gs1.eu

Frug I Com (Foundation Platform Fresh Chain Information)

Frug I Com is a unique collaboration of the Dutch Potato, Fruit and Vegetable Supply Chain. The ultimate goal is to establish electronic exchange of information between the participants in the Potato, Fruit and Vegetable Supply Chain by means of uniform labelling using electronic messages. Working with information standards allows Fruit and Vegetable Supply Chain companies to make optimum use of the information available in the supply chain and to apply it to order processing, tracing of products, optimising logistics and quality improvement. The result? A faster and more efficient supply chain which is less error-prone. Further information see www.frugicom.nl

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1. Introduction

Efficient order and delivery processes, flexibility and traceability: the demands of the fruit and vegetables business have constantly increased over the last years. By means of unique product identification - which can be achieved by using the GS1 standards - these demands can be fulfilled by small, medium and large size companies. The enormous range of items and trading units requires a very detailed description of product specifications and it all depends on the right GTIN (Global Trade Item Number). By thoughtfully preparing to assign GTINs the administrative and operational burdens can be minimized.

This guide is for the fruit and vegetable industry, providing guidance on how to assign a GTIN (Global Trade Item Number) and when to assign a new GTIN. It should be pointed out that GTIN Allocation Rules are available in the GS1 General Specifications. This document is intended for the person responsible for product data management in fruit and vegetable companies to understand the application of those allocation rules.

This guideline is based on the "Fruit & Vegetable GTIN Assignment Implementation Guide" provided by GS1 Global Office. In addition to the global document the GS1 in Europe Fruit & Vegetable Group added target-market specific information for Europe as well as additional examples.

1.1. Purpose and Scope of this Part

It is usual business for the global fruit and vegetable sector to provide fresh products every day. Consumers value the high quality and wide range of fruits and vegetables on the shelves of their retail stores; however supply and demand can change easily in the short term based on factors such as to climate, season and actual weather and plant health issues. This makes it very important for fruit and vegetable retailers to be able to react rapidly to get the right products in their stores.

Increasingly there is an expectation within industry to utilise common, global standards for product identification combined with automated electronic data processing. For all sectors, this is the most efficient way to manage ordering, receiving and labelling of products easily and without problems. In the current business and regulatory environment no industry sector can avoid exchanging detailed and transparent product information such as: country of origin, growing method, size, packaging and colour.

The purpose of this document is to provide companies with clear guidance to support unique GTIN Assignment. Experts within the fruit and vegetable sector have created this guide which includes an overview for fruit and vegetable products and provides business examples explaining the conditions under which a new GTIN must be assigned and defines all attributes and characteristics on which the assignment will depend.

Every effort was made to make this guide relevant across all target markets however in some instances regional guidelines have been developed to assist the industry and to ensure compliance with those specific markets. In some target markets differences in attributes may require a new GTIN, variety, commercial grade, colour of flesh and country of origin are good examples.

Readers are urged to understand and apply regulatory and business requirements specific to Target Market. The relevant target-market specific requirements for Europe are covered within this document.

1.2. Key Definitions

GS1 Glossary Term	Definition
Consumer Package	A trade item as it is distributed to the consumer or end-user.
Trade Package (Case)	"Case" is a generic term which includes any item handled as a single unit in the transport and distribution process. This definition covers a wide variety of package types such as pallets, PRCs, cartons, cases, bins and totes. These items can be trade items and/or logistic units.
Logistics Unit	An item of any composition established for transport and/or storage that needs to be managed through the supply chain. It is identified with an SSCC.
Size	An alphanumeric size factor the brand owner wishes to communicate to the consumer. For example, Jumbo, Medium, Size B, 88 count, etc. Be sure to reference your local market standards for Size information.
	Produce and trade of most fruits and vegetables in the European Union is in most cases subject to the regulation EU 543/2011, which has to be applied on every trade level. Fresh fruit and vegetables not regulated by this standard of commercialization have to comply with the general marketing standard of the European Union or the respective UN/ECE standard. In UN/ECE Standards size is determined by diameter, length, weight, circumference, depending on the nature of produce.
Class / Grade	A code indicating the degree of refinement, features and capabilities for a trade item. An accepted level or standard to determine the quality of fresh produce. Quality grades provide a common language among buyers and sellers, which in turn assures consistent quality for consumers. (source: PMA)
	Produce and trade of most fruits and vegetables in the European Union is in most cases subject to the regulation EU 543/2011, which has to be applied on every trade level. Fresh fruit and vegetables not regulated by this standard of commercialization have to comply with the general marketing standard of the European Union or the respective UN/ECE standard. In UN/ECE Standards classification of produce is e.g. "Extra" Class, Class I, Class II.
Global Trade Item Number (GTIN)	The GS1 Identification Key used to identify trade items. The key comprises a GS1 Company Prefix, an Item Reference and Check Digit.
GS1 Company Prefix	Part of the GS1 System identification number consisting of a GS1 Prefix and a Company Number, both of which are allocated by GS1 Member Organisations. See also U.P.C. Company Prefix. GS1 Member Organisations assign GS1 Company Prefixes to entities that administer the allocation of GS1 System identification numbers. These entities may be, for example, commercial companies, not for profit organisations, governmental agencies, and business units within organisations. Criteria to qualify for the assignment of a GS1 Company Prefix are set by the GS1 Member Organisations.
Item Reference Number	A component of the Global Trade Item Number (GTIN) assigned by the brand owner to create a unique GTIN.
Check Digit	A final digit calculated from the other digits of some GS1 Identification Keys. This digit is used to check that the data has been correctly composed.
Indicator Digit	A digit from 1 to 9 in the leftmost position of the GTIN-14
IFPS	International Federation of Produce Standards, is composed of national produce associations from around the globe.

1.3. Rules how to use the GTIN

1.3.1. What is the Global Trade Item Number (GTIN)?

The Global Trade Item Number (GTIN) is the foundation of the GS1 System for uniquely identifying trade items, which includes both products and services that are sold, delivered, and invoiced at any point in the supply chain. GTINs provide unique identification worldwide. The GTIN is encountered most frequently at point-of-sale and on cases and pallets of products in a distribution/warehouse environment.

Companies can be confident that a GTIN will uniquely identify their products as they move through the global supply chain to the ultimate end user. This global identification system of GS1 ensures that the GTIN placed in a bar code is the same information contained in the corresponding electronic documents processed between trading partners.

1.3.2. What are the Key Benefits of the GTIN?

- Facilitates the global flow of trade items (products and services) and associated information used in electronic commerce
- Uniquely identifies trade items at all levels of packaging (item, case, and pallet)
- Delivers trade item data in a consistent format and structure
- Simplifies supply chain management
- Employs the globally accepted GS1 System whose language is standardized, understood and used by multiple industries

1.3.3. Why is the GTIN Useful?

- **Uniqueness:** The GTIN identifies an item uniquely. The rules for assigning GTINs ensure that every variation of an item (product or service) is allocated a single reference number that is globally unique.

- **Non-significance:** The GTIN numbering structure does not contain any meaningful information in itself. A GTIN is a simple pointer to database information that can be directly used in any company and in any country.

- **Multi-sector:** GTINs are unique across all business sectors. This means that a healthcare product, a grocery product, or an apparel product are all identified in a compatible manner.

- **International:** GTINs are unique worldwide. A GTIN can be assigned anywhere in the world and can be used anywhere in the world.

- **Data Integrity:** The Check Digit ensures the integrity of data passing through the system.

- **Source Numbering:** The GTIN is assigned by the brand owner of the product. Once assigned, all trading partners and internal users can use the GTIN. The same GTIN can be used to identify a series of identical items.

- **Automatic Data Capture:** One of the key benefits of the GTIN is that it can be encoded in many automatic data capture technologies (such as a bar code or electronic product code used in Radio Frequency Identification (RFID) tags. Machine reading allows the information flow to be linked to the physical flow of trade items through the supply chain

1.3.4. Composition of a GTIN

GTINs are typically 8 digits, 12 digits, 13 digits, or 14 digits in length. It is recommended that a GTIN be represented in software applications as 14 digits by right justifying and zero filling left, as appropriate. These GTINs can be represented in a bar code and each provides unique numbers when right justified and used in a 14-digit database field:

GTIN-8

- Seven digits containing a GS1 Company Prefix and the Item Reference Digits assigned by your local GS1 Member Organisation.
- One digit representing the Check Digit

If you require an individual GTIN-8, contact your local GS1 Member Organisation to see if your product meets the GTIN-8 allocation criteria.

GTIN-12

- Eleven digits containing a U.P.C. Company Prefix and the Item Reference assigned by your company
- One digit representing the Check Digit

GTIN-13

- Twelve digits containing a GS1 Company Prefix and the Item Reference assigned by your company
- One digit representing the Check Digit

GTIN-14

- When constructing a GTIN 14 for the identification of packaging, such as cases for fixed weight product, the first digit (with a value of 1 through 8) is an indicator digit. The next 12 digits reflect the GTIN on the consumer item in the case. The last digit is a recalculated check digit.
- Twelve digits the GS1 Company Prefix and the Item Reference assigned by your company
- One digit representing the Check Digit

GS1 Company Prefix

The globally unique number assigned to a company by a GS1 Member Organization. GS1 Company Prefixes are assigned to companies in varying lengths.

Item Reference

The number assigned by a holder of the GS1 Company Prefix to uniquely identify a trade item. The Item Reference varies in length as a function of the Company Prefix length.

Check Digit

A calculated one-digit number used to ensure data integrity.

1.3.5. Representations of a GTIN in a GS1 barcode

5067 8907	GTIN-8 symbology GTIN-8 data structure	▪ Used for point-of-sale identification of pre-packaged, fixed weight/count consumer product ▪ Only assigned by GS1 MO's for use on space restricted products Not a zero-suppressed number
6 14141 00527 7	UPC-A symbology GTIN-12 data structure	▪ Used for point-of-sale identification of pre-packaged, fixed weight/count, consumer product
9 312345 678907	EAN-13 symbology GTIN-13 data structure	▪ Used for point-of-sale identification of pre-packaged, fixed weight/count, consumer product
	GS1 DataBar symbology (stacked omnidirectional) GTIN -14 Data structure	▪ Used for point-of-sale identification of loose, variable weight, consumer product ▪ Data Structure holds up to 14 digits. ▪ There are seven variations of the DataBar symbology. The example shown is the most common related to the identification of loose produce such as apples, bananas, etc. The variations GS1 DataBar Expanded and GS1 DataBar Expanded Stacked can encode additional information such as net weight or price.
(01) 3 06141 41 000013 (17) 050101 (10) A1B2C3 The GTIN number is 30614141000013 The batch number is A1B2C3 The expiry date is 050101 (YY/MM/DD)	GS1-128 symbology Data Structure	Used for trade item identification throughout the supply chain but NOT at point-of-sale.
(01)09512345678901 (3103)001015 (17)210115 (3922)1655 (10)ABC123	GS1 DataMatrix Encodes a 14-digit data string with GTIN-8, GTIN-12, or GTIN-13	▪ Allowed at PoS for variable measure fresh food items since 2019. It can encode additional information such as net weight and Best Before Date

(01)09521071230093 (15)210115 (3102)000025 (10)DEF789012345	GS1 QR Code Encodes a 14-digit data string with GTIN-8, GTIN-12, or GTIN-13	■ Allowed at PoS for variable measure fresh food items since 2019. It can encode additional information such as net weight and Best Before Date

1.3.6. The IFPS PLU Rules

PLU numbers (Price Look-up Numbers) are not used on any bagged product always sold at that weight and not weighed in the store for pricing. PLUs may be used with a corresponding barcode (EAN/UCC-13, UCC-12 or EAN/UCC-8) if the product can be sold either "by each/per unit" or weighed for pricing.

It is incorrect to use both a barcode and PLU code(s) together on an item that can only be sold in a fixed weight form, such as a 1-pound bag of carrots. That bag of carrots is never sold in variable weight form: the cashier would never weigh it on the scale and determine its price based on a price per pound/kg It is always sold just as is: a 1 pound bag of carrots and should carry the appropriate bar code.

Some retailers have indicated their preference for a barcode whenever possible on variable weight produce. This may vary from retailer to retailer and should be considered when preparing coding for product.

For full information, please consult the IFPS Produce PLU "A Users' Guide" at www.ifpsglobal.com

2. Overview on GTIN Assignment

A GTIN is used to identify any item (trade item or service) upon which there is a need to retrieve pre-defined information and that may be priced or ordered or invoiced at any point in any supply chain. A separate, unique GTIN is required whenever any of the pre-defined characteristics of an item are different in any way that is relevant to the trading process.

Fruits and vegetables have unique characteristics which can create confusion during the assignment of GTINs. Changes in variety, colour, packaging, species and many other attributes of the produce item may mean that a separate GTIN is required to distinguish a product form one which seems very similar. Grower/packer/shippers need to understand these differences and use this information to determine what GTINs need to be assigned to uniquely identify/describe their products.

Below are three charts outlining the difference in trade item labelling and where a GTIN is to be assigned for the Consumer Package, Trade Package (Case) and Pallet.

Figure 2.1 – Overview Consumer Package:
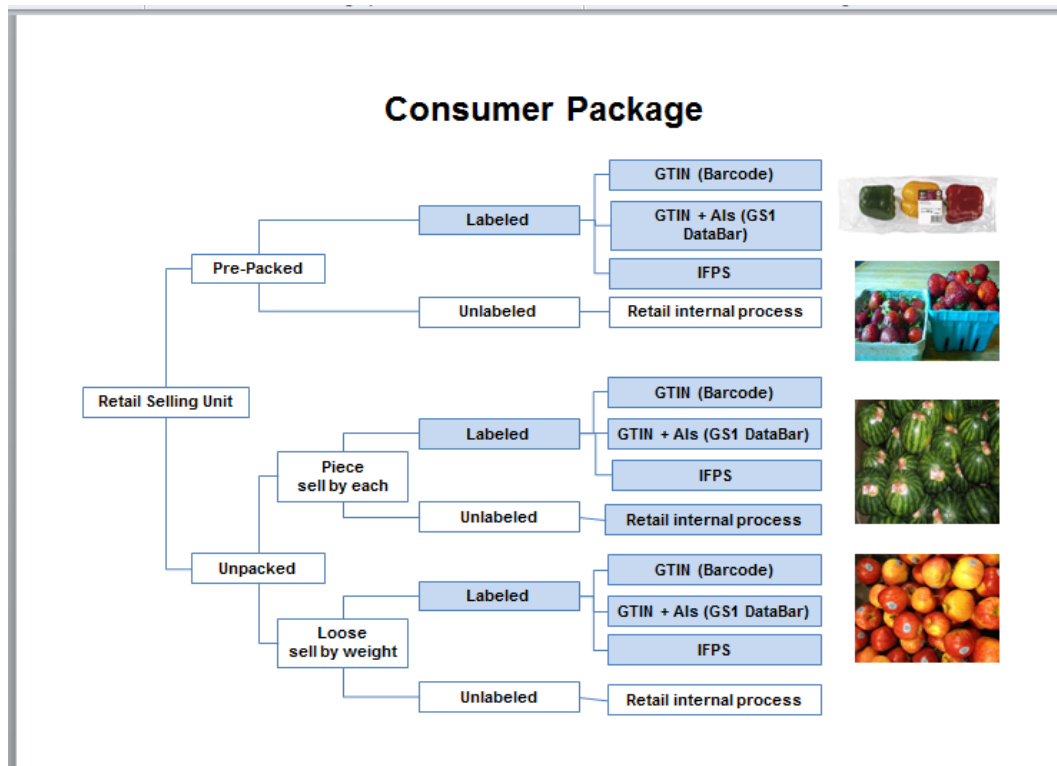
Figure 2.2 – Overview Trade Package
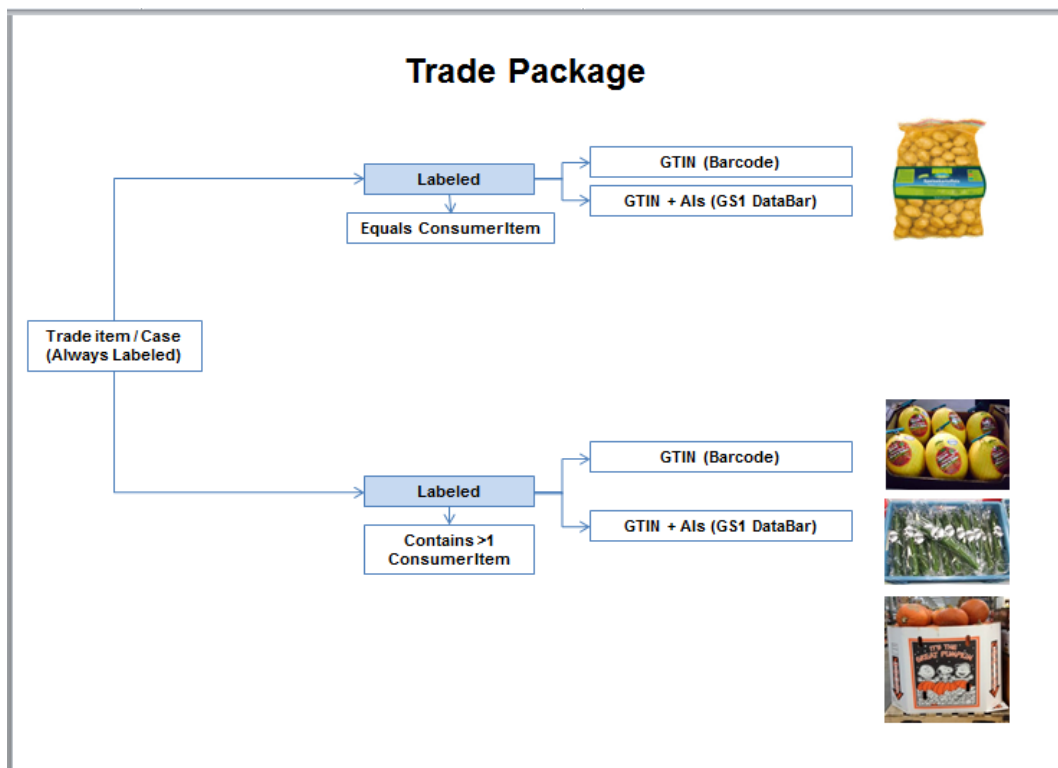
Figure 2.3 – Overview Pallets:
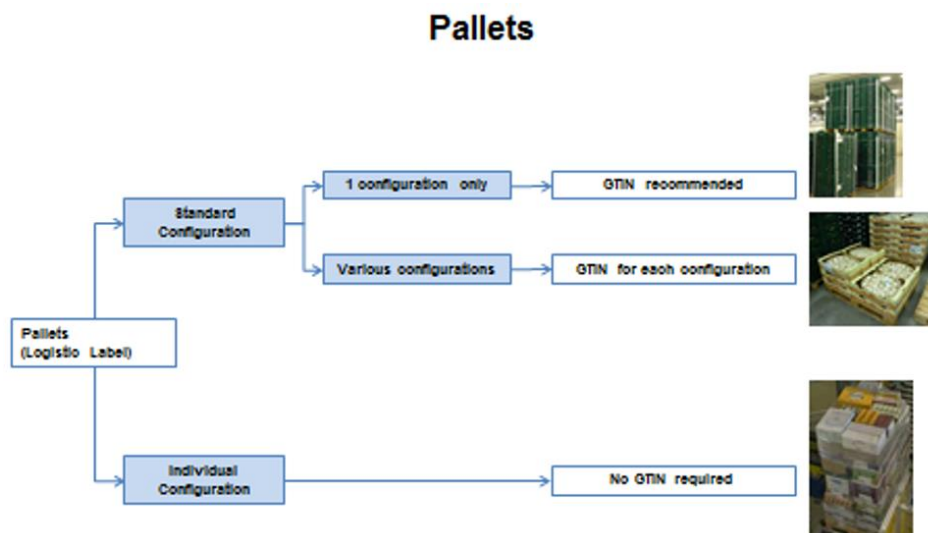
✅ *Remark (GS1 in Europe).*

The figure on pallets is focusing on the pallet as trade unit, if a GTIN is assigned it is to identify the trade unit.

3. GTIN Assignment

3.1. The GTIN – Basis for effective trade processes

The GTIN (Global Trade Identification Number) is part of the global GS1 system and helps to uniquely identify products, selling units, trading units and services. The GTIN enables companies to capture product data automatically for example by barcode scan – from harvest to point-of-sale. GTIN is also a key attribute for GDSN (Global Data Synchronisation Network).

The GTIN provides the basis for EDI (Electronic Data Interchange) between suppliers and retailers. From product ordering (by electronic systems), to reliable identification in warehouse and availability on the shelves of the retail store or foodservice operation, trading partners can optimize their bilateral trading processes regardless of restrictions of sector or country.

Using the GTIN lays the groundwork for your success in business. A supplier of fruits and vegetables you may need to full fill legal requirements such as commercial demands of buyers but the GTIN offers more opportunities. For example, globally unique product identification provides the key to modern electronically governed business process. Single components of the GS1 System fit to each other as tools in a tool box. They can be variously combined. Producers and suppliers are able to optimize their business processes step-by-step using this GS1 tool box.

3.2. Where is the GTIN used?

The GTIN identifies loose or pre-packed trade items at any stage of the supply chain up to the end consumer. In order to ensure the use of the GTIN along the entire supply chain, the GTIN should be assigned as early as possible. In the fruit and vegetable sector it is the party who brings the product into the market; this can be the grower or brand owner, but also the packer, despatcher or shipper.

In electronic messages such as Order, Despatch Advice/ASN and Invoice the GTIN identifies consumer units as well as sales units / trade units.

One specific case is private label brands: to enable labelling of the owner of the private label brand of a product, supplies all needed information and item numbers. f. It is also important to note that a trading partner who assigns GTINs for consumer goods will be held responsible for the GTINs of the trading units of these products.

The Brand Owner of private label products (aka the Private Label Brand Owner, or PLBO) is responsible for assigning GTINs for those products, not the grower or packer serving that PLBO. While not a common practice, some Private Label Brand Owners may choose to have the grower or packer assign GTINs.

3.3. Who is responsible for GTIN assignment?

The brand owner, the organisation that owns the specifications of the trade item regardless of where and by whom it is manufactured, is normally responsible for the assignment of the Global Trade Item Number (GTIN). On joining a GS1 Member Organisation, the brand owner receives a GS1 Company Prefix for the sole use of the company to which it is assigned. The GS1 Company Prefix cannot be sold, leased, or given, in whole or in part, for use by any other company.

The brand owner is the organisation that owns the trade item specifications and may be:
- The manufacturer or supplier: The company that manufactures the trade item or has it manufactured, in any country, and sells it under its own brand name

- The importer or wholesaler: The importer or wholesaler that has the trade item manufactured, in any country and sells it under its own brand name or the importer or wholesaler that changes the trade item (for example by modifying the packaging of the trade item)
- The retailer: The retailer that has the trade item manufactured, in any country, and sells it under its own brand

To determine which supply chain partner assigns the GTIN the following are best practices:

1) If the consumer item is a retailer's or foodservice private label the brand owner is responsible for assigning the GTIN
2) If the Trade item is a private label the brand owner is typically responsible for assigning the GTIN
   a. In some cases, the retailer may have the supplier of the product assign the case level GTIN but the inner product will be assigned the retailer's GTIN
3) If the Packer / Repacker / Despatcher / Shipper is responsible for marking the product they should ensure that the product has a GTIN

Assigning GTINs to Private Label Products

The Brand Owner of private label products (aka the Private Label Brand Owner, or PLBO) is responsible for assigning GTINs for those products, not the grower or packer serving that PLBO. Note that if a PLBO allows more than one grower or packer to use the same GTIN, there is a remote possibility of repetition of Batch/Lot Numbers across the marketplace. In other words, the same Batch/Lot Number might be used by several growers at the same time, which can result in marketplace confusion if a trace back is required. Care should be taken to correctly track Batch/Lot Numbers for private label products when using multiple growers or packers.

GTINs then are assigned only for a unique combination of attributes, and new GTINs are assigned only when an item is added that represents a new combination of attributes.

✅ *Remark (GS1 in Europe)*

Although GS1 refers to the term brand owner in relation to GTIN assignment, this term is in the fruit and vegetable sector often used in another context, e.g. the brand owner for a certain variety.
For GTIN Assignment the definition of "brand owner" according to the GS1 General Specification: The party that is responsible for allocating GS1 System Identification Keys. The administrator of a GS1 Company Prefix.

3.4. When does a new GTIN needs to be assigned?

As a guiding principle, if the customer is expected to distinguish a new trade item from an existing trade item and purchase accordingly, a new GTIN should be assigned to the new trade item. This will ensure the product package and shelf edge label declarations should appear the same to the consumer. However, any law or regulation that contradicts these rules shall supersede these rules.

The question for the fruit and vegetable sector now is the following: When does a producer or retailer have to assign a new GTIN for a product?

A GTIN must always be unique: for each possible packaging of a consumer good a new GTIN has to be assigned, also for each change of measurement of package and for each different quality of the product itself.

Changes of product qualities and the differentiation in degree of these qualities lead also to an assignment of a new GTIN.

In Summary - If a basic characteristic or a packaging characteristic is different, a new GTIN needs to be assigned. Any modification the basic elements that characterises a trade item will usually lead to a change in the GTIN.

✅ **Note:** For a complete list of Fruit and Vegetable Master Data Attributes, reference the Fruit & Vegetable Master Data Attribute Implementation Guide

A separate unique GTIN is required whenever any of the **pre-defined characteristics of an item** are different in **relevance to the trading process**. Dependent on the Target Market, a new identification number (GTIN) may be assigned to a product if one of these properties is different:

Basic Characteristics (always require a new GTIN):

Basic Characteristics	Explanation	Example
Commodity name	Name of the produce (Botanic Name/ descendant from)	Apple (Malus Domestica)
Growing method	Organic; Transitional; Conventional	Organic
Country of origin/region	Country of origin (optional also region of origin or national, regional or local name of product)	Netherlands Germany-Lake Constance
Brand Name (incl. No Name)		Chiquita
Premium Attribute / Commercial Claim (includes Maturity Method)	Premium attributes are used to distinguish from regular products, e.g., air-transport, ready-to-eat, citrus fruit with leaves.	Clementines with leaves (Premium Attribute) Ready-to-Eat (Maturity)

| Mass-flow relevant Certification Standard | In order to mark a trade item with a quality label owned by a specific quality standard organization this organization may require keeping track of the flow of the goods involved (farming, harvesting, packing, etc).
Packages marked with a certain quality label must be clearly distinct from other packages not being marked in all parts of the supply chain. Therefore, a separate GTIN must be allocated. | (e.g. Chain of custody GlobalGAP) |

Product Specific Characteristics (new GTIN required depending on the product):

Product Specific Characteristics	Explanation	Example
Size	Size of the product according to relevant standards	Apples 75/85 mm Oranges 2/3s
Class (Grade)	Class (Grade) of the product according to relevant standards	Extra, Class I, Class II
Colour	Colour of the fruit/vegetable (not colour of flesh)	Gooseberries: white
Shape	Shape of the fruit/vegetable	Cucumbers: crooked
Variety	Variety of the fruit or vegetable	Apple: Elstar Avocado: Hass
Commercial type	Commercial type of fruit or vegetable used in trade	Citrus: Primofiore
Colour of Flesh	Colour of the inner flesh of fruit or vegetable	Peaches: white; Grapefruit: rose
Post-Harvest Treatment	Post-harvest treatment: chemical treatment or waxed.	Clementines: treated
Post-Harvest Processing	Physical treatment e.g. washed or trimmed	Brussels Sprouts: trimmed
Cooking type	Waxiness of Potatoes: waxy, predominantly waxy; floury	Potatoes: floury
Seed Properties	Characteristic based on the amount of seeds.	Grapes: seedless

Packaging Characteristics (always require a new GTIN):

Packaging Characteristics	Explanation	Example
Content/Quantity in trade package	Content of the trade package (Package, Box, Crate, Pallet)	11 kg package; 150 kg big box
Package type and method for trade unit	Type of trade unit package, includes different returnable assets (deposits etc.)	EPS returnable asset; Carton
Content/Quantity in consumer unit	Pre-packed units for consumer, marked and unmarked	120 g; 250 g
Composition of Assortment (trade unit)	Items and/or Quantity	Crate with different potted herbs
Package type and method for consumer unit	Pre-packed units for consumer, marked and unmarked	Bag; Basket, Net
Composition of Assortment (consumer unit)	Items and/or Quantity	Tomato assortment pack Bicolor

NOTE: In some Target Markets differences in attributes may require a new GTIN. Variety, Commercial Grade, Colour of Flesh and Country of Origin are good examples. Readers are urged to understand and apply regulatory and business requirements specific to Target Market.

✅ Remark (GS1 in Europe)

Produce and trade of most fruits and vegetables in the European Union is in most cases subject to the regulation EU 543/2011, which has to be applied on every trade level. Fresh fruit and vegetables not regulated by this standard of commercialization have to comply with the general marketing standard of the European Union or the respective UN/ECE standard. In order to fulfil all demands of the supply chain for fruits and vegetables the present recommendation is based on the UN/ECE standards.

The defined product characteristics clearly explain the conditions when a new GTIN has to be allocated and used. If a basic characteristic or a packaging characteristic is different, always a new GTIN needs to be allocated. Also in the case of different product specific characteristics a new GTIN is needed if this characteristic applies to the product. The differentiation of apples can be used as an example: Apart from different basic and packaging characteristics also each size, sort and quality and, under special circumstances, also post-harvest treatment, lead to a new GTIN.

A table containing all relevant types of produce and the relevant characteristics leading to new GTIN is provided in Annex A (Chapter 6).

Examples for case level are provided in the table below, but do not necessarily reflect the European requirements.

Consumer and Trade Item (Case) Level Example for GTIN Assignment:

Attribute	Change Requires (New GTIN)	Ex1	Ex2	Ex3	Ex4	Ex5	Ex6	Ex7	Ex8	Ex9
Commodity (Functional Name)	YES	Peach	Peach	Peach	Peach	Peach	Peach	Peach	Peach	Peach
Variety (Variant)	YES	Fortuna	Fortuna	Fortuna	Revita	Revita	Revita	August Lady	Summer Lady	August Lady
Country of Origin	NO	Greece	Greece	Greece	Italy	Italy	Italy	USA	USA	USA
Case Qty (Qty of Next Lower Level)	YES									
Case Type (Packagin Type)	YES	Carton	Carton	Carton	Carton	Carton	Carton	Carton	Carton	Carton
Pack Style (Packaging Type)	If level has a GTIN, change will affect	Tray Pack	Tray Pack	Tray Pack	Tray Pack	Tray Pack	Tray Pack	Tray Pack	Tray Pack	Tray Pack
Pack Size (Net Content)	YES	65	52	40	75	64	64	52	52	52
Pack Size Unit (Net Content UoM)	YES	Each	Each	Each	Each	Each	Each	Each	Each	Each
Size Group (Descriptive Size)	If dimensions change, YES	A	A	AA	B	B	B			
Growing Method	YES	Traditional	Traditional	Traditional	Traditional	Traditional	Traditional	Tree Ripe	Tree Ripe	Tree Ripe
Grower Label (Farm)	NO	Rodakino AC Meliki Imathia Veria	Rodakino AC Meliki Imathia Veria	Rodakino AC Meliki Imathia Veria	La Perla Siciliana Corso Messina 3 Tindari - ME	La Perla Siciliana Corso Messina 3 Tindari - ME	La Perla Siciliana Corso Messina 3 Tindari - ME	MO	LH	CL
Grade (Quality / Class)	YES	II	I	Extra	II	I	Extra	US No. 2	US No. 1	US No. 1
Brand Name	YES	Bares	Bares	Bares	Perla Siciliana	Perla Siciliana	Perla Siciliana	Brown's	Brown's	Brown's
Any Dimensional Changes (H, W, D) (+/- 10%)	YES	40x30x32	40x30x28	40x30x28	40x30x28	40x30x30	40x30x28			
Any Weight Changes (Gross, Net) (+/- 10%)	YES	10075	8060	8000	9000	7680	7680			
Colour of Flesh	YES (Target-market Funmal)	Yellow	Yellow	Yellow	White	White	White			
Unique GTIN		0521345789039	0521345789022	0521345789015	0839890125816	08395678901233	08391234567899	00614141000036	00614141000029	00614141000012

3.5.   GTIN Assignment Examples

Example 1:   Pre-packed units, Differentiation

False: GTIN 4311501991008 for "Iceberg Lettuce"	**Correct:**
Why: >> Lettuce has to be differentiated by country of origin, size, class (grade) (EU 543/2011 B 4) >> Their packaging (a protective packaging in this instance) is for the target market Germany liable to licence fees according the „Verpackungsverordnung".	>> GTIN 4311501991015 for "Iceberg Spain class I 9er foiled" >> GTIN 4311501991022 for "Iceberg Spain class I 10 foiled" >> GTIN 4311501991039 for "Iceberg Germany class II 8er foiled"

Example 2:   Pre-packed units, Variety Packs/Mixes

False: GTIN 4311501991046 for "Tomato Mix"	**Correct:**
Why: >> Tomatoes are differentiated by country of origin and class (grade) (EU 543/2011 B 10), for class II the size is optional. Further there must be made a difference in growing method between conventional and organic (EG 889/2008). There are different brands and different packagings.	>> GTIN 4311502112846 for „Merida Cherry Tomatoes Trimix Netherlands extra class 200 g dish with cap" >> GTIN 4311527003167 for „Cozumel Bio Wild Wonders Tomatoes Mix Netherlands class II 200 g beaker with cap"

Example 3: Pre-packed units, content information

False: GTIN 4311501991053 for "Trusses of cocktail tomatoes 300 g or 400 g"	Correct:
Why: >> Trusses of cocktail tomatoes are differentiated by commercial type, country of origin and class (grade) (EU 543/2011 B 10). The packaging is for the target market Germany liable to licence fees according the „Verpackungsverord-nung". The base price is different.	>> GTIN **4311502991069** for "Trusses of cocktail tomatoes Netherlands extra class 300g dish with cap" >> GTIN 4311502991076 for "Trusses of cocktail tomatoes Netherlands extra class 400g dish with cap"

Example 4: Trade units, Differentiation

False: GTIN 4311502991083 for "Tomatoes"	Correct:
Why: >> Tomatoes are differentiated by commercial type, country of origin, size and class (grade) (EU 543/2011 B 10). >> The packaging is for transportation purpose and has to be treated according to relevant recycling regulations.	>> GTIN **4311502991106** for "Tomatoes Italy class I 48 to 57 mm carton 5 kg" >> GTIN **4311502991113** for "Tomatoes yellow Italy class I 48 to 57 mm carton 5 kg"

Example 5:   Trade units, Variety Packs/Mixes

False: GTIN 4311502991120 for "Mix of herbs in pot including pots"	**Correct:**
Why: >> Most herbs in pots have to be differentiated by country of origin (EU 543/2011 A). Furthermore the pots need to be differentiated by size. >> For each composition of a mix a new GTIN has to be allocated and additionally a separate GTIN is needed for each herb in pot product.	>> GTIN 4311502991137 for "Chives in pot Germany pot diameter 13 cm" >> GTIN 4311502991144 for "Parsley curly in pot Germany pot diameter 13 cm" >> GTIN 4311502991151 for "mixed herbs in pot Germany pot diameter 13 cm (6 pots chives, 6 pots parsley curly)"

Example 6:   Trade units, returnable empties

False: GTIN 4311502991168 for "oranges Spain class I 10 kg"	**Correct:**
Why: >> Oranges are differentiated by variety, country of origin, size and class (grade) (EU 543/2011 B2). Packaging has to be differentiated because it is a returnable transport packaging, for ex. a returnable crate of type EPS 186.	>> GTIN 4311502991175 for "Oranges Cara-Cara Spain class I 1 10 kg carton" >> GTIN 4311502991182 for "Oranges Cara-Cara Spain class I 1 10 kg carton of type EPS 186"

3.6. Scenarios for GTIN Assignment

3.6.1. Packages Pre-Packed by the Supplier

The producers/traders/importers/packers pre-pack the merchandise for the retailer and it is delivered to the retailer labelled according to regular GS1 GTIN or IFPS PLU data structure.

The final consumer will normally find the products weighed at the point-of-sale with price clearly marked.

Producer/Supplier Brand

The supplier/producer is the party responsible to assign the GTIN to the item. The supplier/producer will use its GS1 company prefix and a unique number to create the GTIN for the trade item. The final consumer will normally find the products weighed at the point-of-sale with price clearly marked.

3.6.2. Packages Pre-Packed by the Retailer at the Point of Sale

The producers/traders deliver the merchandise to the retailer as previously agreed. The retailer will manipulate the merchandise to turn it into the final item for the consumer and label it according regular GS1 GTIN or IFPS PLU data structure.

The final consumer will normally find the products weighed at the point-of-sale with price clearly marked.

Retailer Brand

The Retailer is the party responsible to assign the GTIN to the item. The retailer will use its GS1 company prefix and a unique number to create the GTIN for the trade item.

The final consumer will normally find the products weighed at the point-of-sale with price clearly marked.

3.6.3. Generic Products (non-branded packages)

For generic products, the supplier should be the party responsible to assign the GTIN to the item. This principle is very important if we want to have full traceability through all the supply chain, since items coming from different suppliers have different GTINs.

The supplier will use its GS1 company prefix and a unique number to create the GTIN for the trade item.

Example: Pack of 6 apples sold by unit with Supplier Brand with GTIN 84567800996.
The price for the Pack of 6 apples is not related to its weight.

GS1 Company Prefix = 8456780
Item Reference = 00099
Check-Digit = 6
GTIN= 8456780000996

3.6.4. Articles Sold as Loose Product

For items sold in bulk to the final consumer the brand of item is not important. The producers; traders; importers; packers deliver the merchandise to the retailer as previously agreed. Products are presented at the point of sale without any specific packaging. The final consumer takes the fruits or vegetables; he puts them in a plastic bag and weighs it. The scale will automatically print a label with all the necessary information to determine the price of the article at the point of sale. The code to identify the product is normally assigned by the retailer.

Example: Oranges are sold loose. The final consumer of a retailer takes 1.073 kilograms of Oranges from a Box in the Fruit section of a supermarket.
The total weight is 1.073 Kilograms and the price per kilogram is € 1.23.

The alternative scenario is that the produce is marked with a GTIN (EAN/UPC or GS1 DataBar) or an IFPS PLU Number and the article will be scanned and weighed at the point of sale.

Example: Oranges are sold loose and are marked with a GTIN encoded with an EAN/UPC or GS1 DataBar Barcode. At the point of sale it is scanned and registered that is variable weight product and it is weighed at the point of sale.

4.   GTIN Assignment Business Examples

Example 1 - Standard product packaging Case of Bulk Cucumbers

Who are the Trading Partners?
- Norbert's Packers –medium size product facility operating in Valencia, Spain with customers throughout the world
- Norbert packers specializes in bulk cucumbers products and ships direct to retail customers
- Customer - Henri's Retailer based in Cologne, Germany

What is happening?
- Norbert Packers trades bulk cucumbers with the same grade, quantity, quality, size and country of origin. Product is traded in 3 standard case configurations

	Bulk cucumbers with no GTIN (wrapped or unwrapped, with brand label or with PLU)
	Case 1- cardboard box, with 12 cucumbers inside GTIN - 08456789000007
	Case 2 - Wood crate with 12 cucumbers inside GTIN – 08456789000014
	Case 3 – Reusable plastic container (RPC) with 12 cucumbers inside GTIN – 08456789000021

- Henri's purchases all three products from Norbert's Packers

What is the Best Practice?
- Because the trade items are traded in different packaging types, they require different GTIN Assignment
- Norbert's identifies these three trade items with 3 different GTINs
  - Cardboard box with 08456789000007
  - Wood crate with 08456789000014
  - RPC with 08456789000021

- This example demonstrates the difference in packaging types and how they require a unique GTIN Assignment

Bulk Cucumbers with same product characteristics but different packaging

Norbert's bulk Cucumbers in cardboard box — GTIN - 08456789000007 → Henri's Retail Supermarket

Norbert's bulk cucumbers in wood crate — GTIN - 08456789000014 → Henri's Retail Supermarket

Norbert's bulk cucumbers in RPC — GTIN - 08456789000021 → Henri's Retail Supermarket
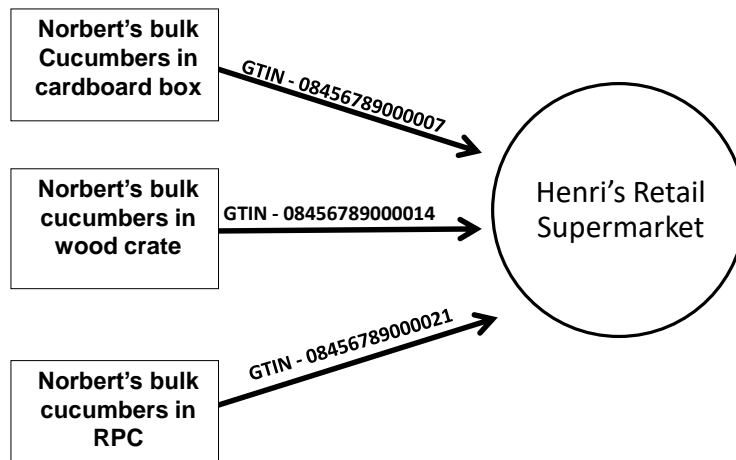
Example 2 - Standard produce case with Consumer Trade Item inside

Who are the Trading Partners?
- Norbert's Packers – medium size product facility operating in Valencia, Spain with customers throughout the world
- Norbert packers specializes in pre-packed cucumbers and ships direct to retail customers
- Customer - Henri's Retailer based in Cologne, Germany

What is happening?
- Norbert Packers trades pre-packed cucumbers with the same grade, quantity, quality, size and country of origin. Product is traded in 2 standard case configurations. Each case configuration contains a pre-packed consumer items with a GTIN.

	Consumer Trade Item with GTIN – 0845678900038 This consumer trade item is wrapped, labeled and packed within each case configuration (with or without PLU).

	Case 1- cardboard box, with 12 cucumbers inside GTIN - 18456789000035
	Case 2 – Reusable plastic container (RPC) with 12 cucumbers inside GTIN – 38456789000039

<u>What is the Best Practice?</u>
- Because the consumer item has to be identified at Point-of-Sale it requires a unique GTIN, Norbert's identifies his pre-packed consumer trade item with a unique GTIN – 0845678900038

- Because we need to differentiate each case configuration Norbert's identifies each case with a unique GTIN
   - Cardboard box with 18456789000035
   - RPC with 38456789000039

Pre-packed Cucumbers with the identical consumer Trade item inside

Case

Consumer trade item

Norbert's pre-packed cucumbers in cardboard box
18456789000035 →

Norbert's pre-packed cucumbers
0845678900038 →

Norbert's pre-packed cucumbers in RPC
38456789000039 →

Norbert's pre-packed cucumbers
0845678900038 →

Henri's Retail Supermarket
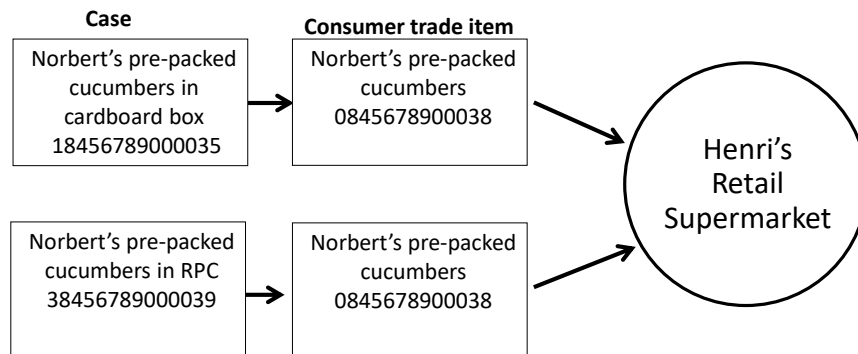
Example 3 – Packaging Changes and their impact on GTIN assignment

Who are the Trading Partners?
- Norbert's Packers – medium size product facility operating in Valencia, Spain with customers throughout the world
- Norbert packers specializes in cucumbers and ships direct to retail customers
- Customer - Henri's Retailer based in Cologne, Germany

Minor Change – What is happening?
- Norbert Packers trades cucumbers in a box. Its dimensions are 40cm x 30 cm x 16.5cm.
- Norbert Packers changes packaging suppliers and replaces the box with a slightly taller one. Its dimensions are 40cm x 30cm x 17.5cm. This dimension change represents less than 10%.
- The net content remains the same.

Minor Change – What is the Best Practice?
- The packaging change is considered minor (less than 10%) and for this reason, Norbert Packers can continue using the same GTIN.

NO NEW GTIN REQUIRED
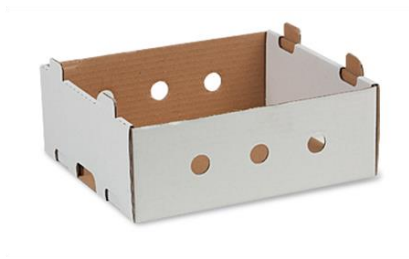
Case 1
40cm x 30 cm x 16.5cm
GTIN - 18456789000042
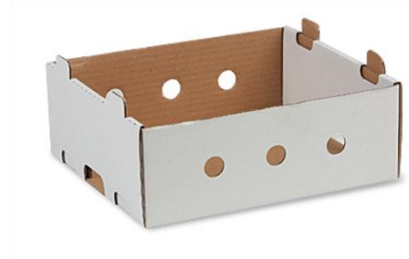
Case 2
40cm x 30cm x 17.5cm
GTIN - 18456789000042

Major Change – What is happening?
- Norbert Packers changes packaging suppliers once again. This time, the new package dimensions are 40cm x 30cm x 21cm. This dimension change represents more than 20%.
- The net content remains the same.

Major Change – What is the Best Practice?
- The packaging change is considered major (greater than 20%) and for this reason, Norbert Packers assigns a new GTIN.

NEW GTIN REQUIRED

Case 1
40cm x 30 cm x 16.5cm
GTIN - 18456789000042
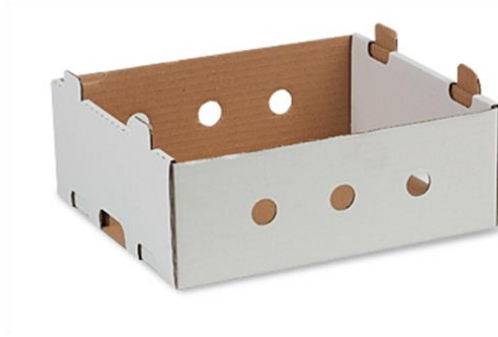
Case 3
40cm x 30cm x 21cm
GTIN - 28456789000049

Example 4 – Sourcing product based on Country of Origin (address regulatory or business need)

Who are the Trading Partners?
- Juan's Grapefruit Packers is an international company specializing in grapefruit product from Mexico and the USA. They trade grapefruit all over the world including Greg's Citrus Trading Company
- Mike's Grapefruit Packers is an international company specializing in grapefruit product from Mexico and the USA. They trade grapefruit all over the world including Greg's Citrus Trading Company
- Greg Citrus Trading Company is a Trader which buys and sells grapefruit in the international market.
- Jane's Grocery is a mid-size supermarket based in the USA
- Isabelle's Corner Store based in France

What is happening?
- Greg's Citrus Company is sourcing product grown and packed in different countries
- Greg's Citrus Company does not change the products it buys in any way; they simply resell the product
- Greg's Citrus Company has customers in France (Isabelle's) and USA (Jane's).
- European regulation requires that country of origin must be defined at time of ordering, therefore, Isabelle's Corner Store requires that country of origin is part of Master Data.
- When Greg's Citrus Trading Company provides his Master Data to Jane's Grocery and Isabelle's Corner Store, he exchanges information for both case products.
- When Jane's Grocery orders, they do not specify the country of origin. Consequently, they may receive either product from Greg's Citrus Trading Company.
- When Isabelle's Corner Store orders, they will always specify the desired country of origin.

What is the Best Practice?

- Juan's assigns a GTIN to his product originating from Mexico and makes this available to his customer, Greg's Citrus Trading Company
  - GTIN – 17507894321780
- Mike's assigns a GTIN for his product originating from USA and makes this available to his customer, Greg's Citrus Trading Company
  - GTIN - 10064141567898
- Greg's Citrus Trading Company records and list Juan's and Mike's GTIN in his database

Country of Origin
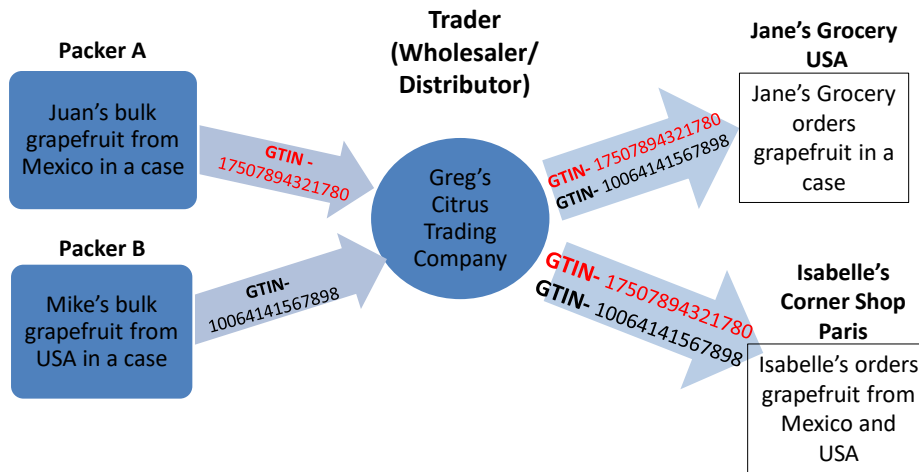
Example 5 – Post Harvest Processing (banana Ripening)

Who are the trading partners?

- Bobby Banana Company is a fruit packer and ships bananas to wholesale and ripening facilities.
- Ed's Ripening Facility is a banana ripener who sells ripened bananas to wholesalers

What is happening?

- Bobby Banana Company sells unripen bananas to Ed's Ripening Facility
- Ed's Ripening orders unripen bananas, use GTIN-A for invoice.

What is the Best Practice?

- The Packer assigns GTIN-A to identify unripen bananas for selling / ordering
- Ripening of bananas to degree 4 is a transformation of the product, therefore the Ed's is responsible for assigning a new GTIN (GTIN-B)

- Further ripening of bananas (degree 4 to degree 6) does not represent a transformation, and consequently the same GTIN (GTIN-B) is used.
- **Note:** other examples could include celery, romaine hearts, Brussels sprouts…)

Post Harvest Processing
(e.g. Bananas)

Bobby Banana Packer

| Unripen Bananas GTIN-A | → | **Ed's Ripening Facility**

Bananas ripened to degree 4
GTIN-B | → | Wholesaler (degree 4 to 6)
GTIN-B | → | Retail
GTIN-B |
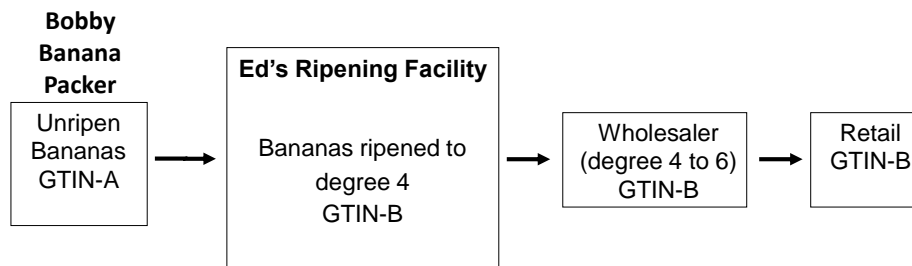
Example 6 – Post Harvest Processing (e.g. broccoli, celery, Brussels sprouts, green beans)

Who are the trading partners?
- Klaus Growers is a producer of Brussels sprouts
- Mike's Packer is a distributor of Brussels sprouts
- Pere's Fresh market is a small retailer of fruit and vegetables in Barcelona
- Harry's Discount Market is a mid-size retailer in Amsterdam

What is happening?
- Klaus Growers ships Brussels Sprouts to Mike's Packer
- Mike's Packer has a processing line for trimming. Trimmed product is available to the trade as GTIN-A
- Mike's Packer also sells unprocessed (i.e. untrimmed) Brussels sprouts. These are available to the trade as GTIN-B
- Pere's Fresh Market specializes in premium fruit and vegetables. Pere's Fresh Market purchases GTIN-A from Mike's
- Harry's Discount Market purchases untrimmed product from Mike's, GTIN-B

What is the Best Practice?

- Trimming is a process and for this reason has to be distinguished from unprocessed product
- Mike's Packer assigns Trimmed Brussels sprouts
- Mike's Packer assigns Untrimmed Brussels sprouts

Post Harvest Processing

```
Klaus                                    Brussels        Pere's
Growers                                  sprouts         Fresh
                        Mike's           trimmed         Market
Brussels        →       Packer    →      GTIN-A    →
Sprouts                                   ↘
                                         Brussels        Harry's
                                         sprouts         Discount
                                         untrimmed   →   Market
                                         GTIN-B
```
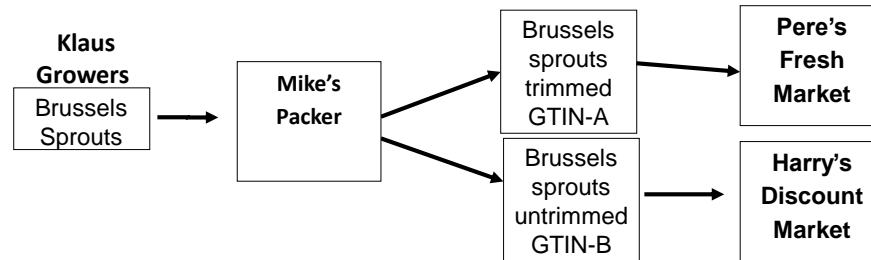
Example 7 – Packing / Repacking

Who are the trading partners?

- Hometown Farms is a large grower of apples operating in New York State, USA
- Precision Packing is a large repacker of apples with customers throughout the world
- Sam's Independent Grocer is a mid-size retailer based in Chicago, USA
- Harry's Discount Market is a mid-size retailer in Amsterdam
- Really Big Retail is a large retailer with stores throughout France

What is happening?

- Hometown Farms sells packed green apples to Precision Packing
- Precision Packing repacks Hometown Farms green apples into new trade items
- Precision packs branded and unbranded trade items
- Precision Packing is creating product for Sam's under their private label. This means those products are identified using a GTIN assigned by Sam's Independent Grocer
- Precision Packing also creates product under the brand name Precision. These products are sold to Really Big Retail. These products are identified using a GTIN assigned by themselves
- Precision Packing is also trading Unbranded products using a different GTIN assigned by themselves

What is the Best Practice?

- Hometown Farms assigns a GTIN to their cases of Green apples GTIN -10245894332241
- Precision Packing uses a GTIN assigned by Sam's Independent Grocer 5lb bags –
  - Case - 1033998740000
  - Item - 339987400009
- Precision Packing assigns new GTINs to cases and items themselves
  - Case - 10337784848489
  - Item - 337784848482
- Precision Packing assigns new GTINs to Unbranded items themselves
  - Case - 1033778484849
  - Item – 337784848496

Packing / Repacking
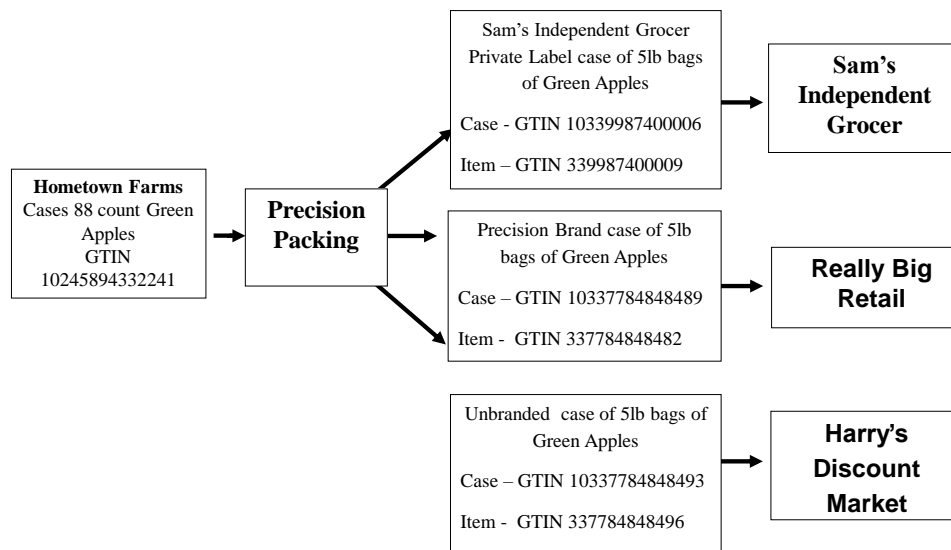
Example 8 – Packing / Repacking Variety packs

Who are the trading partners?

- Good Bros Farms is small local grower of peppers
- Fresh Pepper Farms is a small local grower of peppers
- Precision Farms is a large grower of peppers and owned by Precision Packing
- Sam's Independent Grocer is a mid-size retailer based in Chicago, USA
- Harry's Discount Market is a mid-size retailer in Amsterdam
- Really Big Retail is a large retailer with stores throughout France

What is happening?

- Good Bros Farms sells packed green bell peppers to Precision Packing
- Fresh Pepper Farms sells packed red bell peppers to Precision Packing
- Precision Farms (owned by Precision Packing) delivers yellow bell peppers directly from the field.
- Precision Packing repacks all bell peppers into variety packs contain one red, one green and one yellow bell-pepper as new trade items.
- Precision packs branded and unbranded trade items
- Precision Packing is creating product for Sam's under their private label. This means those products are identified using a GTIN assigned by Sam's Independent Grocer
- Precision Packing also creates product under the brand name Precision. These products are sold to Really Big Retail. These products are identified using a GTIN assigned by themselves
- Precision Packing is also trading Unbranded products using a different GTIN assigned by themselves

What is the Best Practice?

- Good Bros Farms assigns a GTIN to their cases of Green peppers GTIN -1076414123462
- Fresh Pepper Farms assigns a GTIN to their cases of Red peppers GTIN – 10245894332241
- As Precision Packing is creating new products, a new GTIN must be assigned by Precision Packing or Sam's Independent Grocer (private label brand owner). Precision Packing must not use the GTINs assigned by Good Bros and Fresh Peppers in this case.
- As the Yellow Peppers from Precision Farms comes directly from the field to the packhouse
  (i.e. Precision Packing) there is no GTIN required
- Precision Packing uses a GTIN assigned by Sam's Independent Grocer for the Private Label Variety Packs –
    o Case - 10339987400013
    o Item - 339987400016
- When Precision Packing assigns GTINs, they must do so based on Precisions Packing GS1 Company Prefix.
- Precision Packing assigns new GTINs to their own branded items
    o Case - 10337784848472
    o Item - 337784848475
- Precision Packing assigns new GTINs to Unbranded items
    o Case - 10337784848465
    o Item - 337784848468

Packing / Repacking Variety Packs
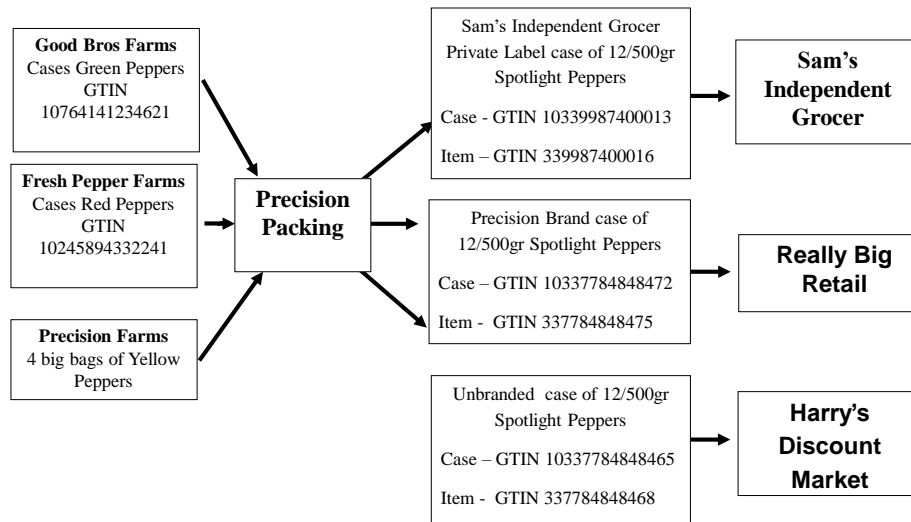
Example 9 – Repacking after rejection (e.g. Re-grading)

<u>Who are the trading partners?</u>

- Precision Packing is distributor of Green Apples
- Sam's Independent Retailer
- Really Big Retailer
- Harry's Discount Market
- Dawn's is a solution provider that serves the industry by repacking products

<u>What is happening?</u>

- Precision Packing is selling Class I Green Apples for Sam's under their private label. This means those products are identified using a GTIN assigned by Sam's Independent Grocer
- Sam's rejects the whole delivery as some products did not meet Sam's specifications. Precision retains ownership and re-packs the rejected delivery.
- Out of this delivery, Precision repacks the product into three items;
    - The first item meets Sam's specifications and can be sold to Sam's using the original GTIN
    - The second item is degraded to Class II and sold under Precision's brand to Really Big Retail
    - The third item is degraded to Class II and sold as Unbranded to Harry's Discount Market

What is the Best Practice?

- Precision Packing assigns new GTINs to their own branded items Class II
  - Case - 10337784848428
  - Item - 337784848449
- Precision Packing assigns new GTINs to Unbranded items Class II
  - Case - 10337784848417
  - Item - 337784848436

Repacking after rejecting (e.g. re-grading)

Black lines = original transaction
Red lines = transactions after re-grading
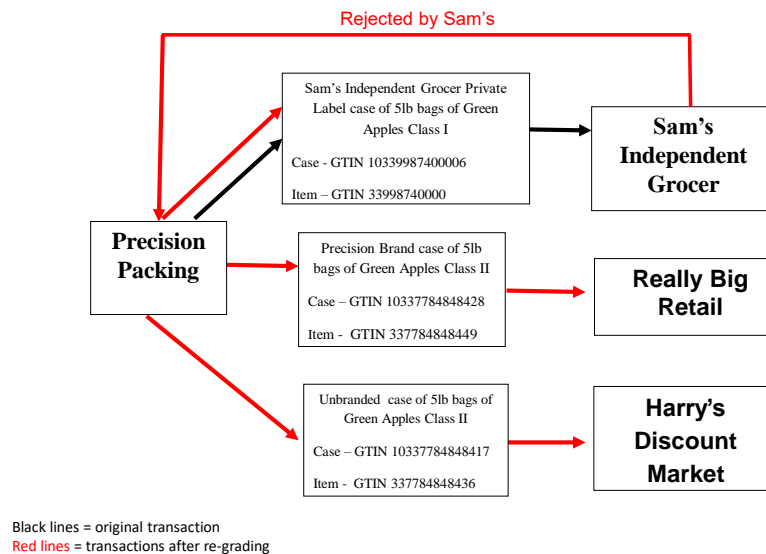
Example 10 – Repacking by Third Party after rejection

Who are the trading partners?

- Precision Packing is distributor of Green Apples
- Sam's Independent Retailer
- Miguel's Hypermarket
- Harry's Discount Market
- Dawn's Local Repacking Inc.
- Dawn's Local Repacking Inc. sells Class I & Class II Green Apples under their own brand and GTINs to the market.

What is happening?

- Precision Packing is selling Class I Green Apples for Sam's under their private label. This means those products are identified using a GTIN assigned by Sam's Independent Grocer.
- Sam's rejects the whole delivery as some products did not meet Sam's specifications.
- Precision sells the rejected products to Dawn's Local Repacking Services and arranges transportation directly from Sam's to Dawn's facility.
- Dawn's Local Repacking Inc. sells Class I & Class II Green Apples under their own brand and GTINs to the market.
- Out of this delivery, Dawn's Local Repacking Services repacks the product into two items;
    - Although the first item meets Sam's specifications (e.g. Class I), Dawn's will sell them to another retailer using Dawn's GTIN for Class I green apples.
    - The second item is degraded to Class II. Dawn's sells unbranded Green Apples to a Discount Market using a GTIN assigned by Dawn's.

What is the Best Practice?

- Dawn's Repacking Inc. assigns their GTINs to their own branded items Class I
    - Case - 10434564848450
    - Item - 337784848426

- Dawn's Repacking Inc. assigns their GTINs to Unbranded items Class II
    - Case - 10434564848417
    - Item – 337784848436

Repacking by Third Party after rejection

Black lines = original transaction
Red lines = transactions after re-grading
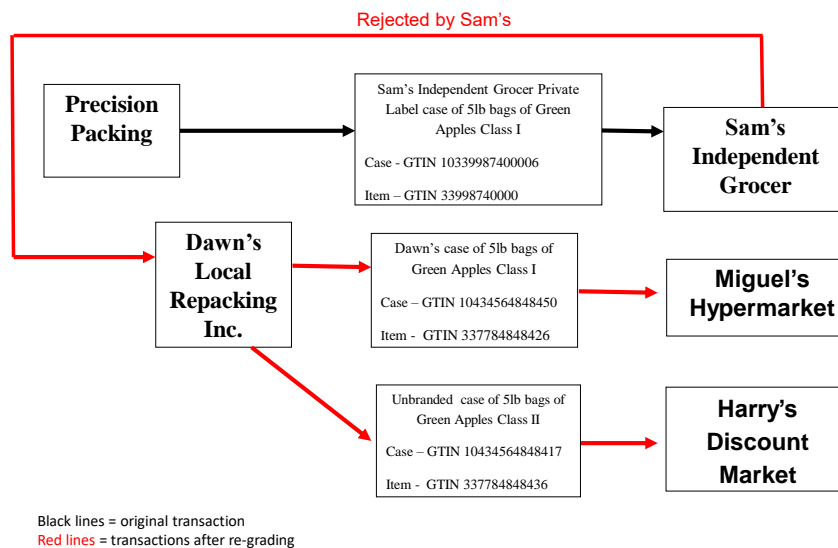
Example 11 – Same retail product but in different packaging

<u>Who are the trading partners?</u>

- Gerard's Produce Company – a large producer of packaged fruits and vegetables in France has several different sized customers with varied needs
- Gerard's Produce Company produces 500g packages of leeks; one in a clam shell and the other in a 500g bag.
- Olivier's Fruit and Vegetable Market is one of Gerard's customers in Lille.

<u>What is happening?</u>

- Olivier's Fruit and Vegetable Market requires the 500g packages of leeks in a bag.

<u>What is the Best Practice?</u>

- Gerard's Produce Company identifies each packaging type of leeks with a different GTIN

    o 500g packages of leeks in a shell with saran as GTIN-A

    o 500g bags of leeks as GTIN-B

GTIN-A

GTIN-B

5. Internet Resources

The following links provide additional resources regarding GTIN allocation as well detailed information on the referenced food marketing standards.

Information about structure and use of the GTIN
https://www.gs1.org/standards/id-keys/gtin

GS1 in Europe
www.gs1.eu

GTIN Allocation Rules for Fresh Foods
www.gs1.org/1/gtinrules/index.php/tid=32

GS1 Global Office
www.gs1.org

UNECE Standards for Fresh Fruits and Vegetables (FFV)
https://unece.org/trade/wp7/FFV-Standards

UNECE Standards for Dry and Dried Produce (DDP)
https://unece.org/trade/wp7/DDP-Standards

Codex Alimentarius – International Food Standards
www.codexalimentarius.org

EU Regulation on Fruit & Vegetables EU 543/2011
http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:157:0001:0163:EN:PDF

6.   Annex A - Check List When to Assign a New GTIN

The following table lists the different Fruits and Vegetables alphabetically. Based on the individual product features, it is possible to check when the assignment of a separate GTIN is required for Europe.

Legend:

M	Mandatory	Different characteristics always lead to a new GTIN.
CM	Conditional Mandatory	Different characteristics may lead to new GTIN under certain conditions.
O	Optional	Different characteristics may lead to new GTIN.
R	Recommended	It is recommended to allocate a new GTIN when characteristics differ.

Comment:
This table is also available as Excel-File. Please refer to www.gs1.eu

Version 2.0, finalised 30 June 2023

Additional Information:

Mixed Packs:

A change of the composition of variety packs or mixed crates (e.g. mixed head lettuces in packing unit, bicolor in pre-packed units) always requires a new GTIN.

Bananas:

A change from unripened to ripened bananas, does not necessarily require a new GTIN on the package. This is currently handled with bilateral agreements.

GPC Family	GPC Class	Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Mass-flow Relevant Certification	Premium Attributes	Class / Grade	Size	Colour	Shape	Variety	Commercial Type	Colour of Flesh	Post-Harvest Treatment (chem/wax)	Post-Harvest Processing (phys)	Cooking Type	Seed Characteristics	Content/Quantity of Pre-Packed Unit	Content/Quantity of Trade Unit	Packaging Type of Pre-Packed Unit	Packaging Type of Trade Unit	RTI-Type	Composition of Pre-Packed Unit	Composition of mixed Trade Units	Relevant Regulation or Standard
Fruits – Unprepared/Unprocessed (Fresh)	Annona	Atemoyas	Annona cherimola Mill. x Annona squamosa L	M	M	M	M	M	M	M	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-47
Fruits – Unprepared/Unprocessed (Fresh)	Annona	Cherimoyas	Annona cherimola	M	M	M	M	M	M	M	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-47
Fruits – Unprepared/Unprocessed (Fresh)	Annona	Ilamas	Annona diversifolia	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Annona	Soursops/Guanabanas	Annona muricata L	M	M	M	M	M	M	M	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-47
Fruits – Unprepared/Unprocessed (Fresh)	Annona	Sugar-apples	Annona squamosa L.	M	M	M	M	M	M	M	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-47
Fruits – Unprepared/Unprocessed (Fresh)	Avocados	Avocados - Peebled Peel	Persea americana	M	M	M	M	M	M	M	-	-	M	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-42
Fruits – Unprepared/Unprocessed (Fresh)	Avocados	Avocados - Smooth Peel	Persea americana	M	M	M	M	M	M	M	-	-	M	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-42
Fruits – Unprepared/Unprocessed (Fresh)	Avocados	Finger Avocados	Persea americana	M	M	M	M	M	M	M	-	-	M	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-42
Fruits – Unprepared/Unprocessed (Fresh)	Bananas	Baby Bananas (ripened)	Musa	M	O	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 1333/2011
Fruits – Unprepared/Unprocessed (Fresh)	Bananas	Baby Bananas (unripened)	Musa	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 1333/2011

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Fruits – Unprepared/Unprocessed (Fresh)	Bananas	Bananas - Cavendish (ripened)	Musa AAA ssp. Cavendish	M	O	M	M	M	-	-	-	-	-	R	-	-	-	-	-	M	M	M	M	M	M	M	EU 1333/2011
Fruits – Unprepared/Unprocessed (Fresh)	Bananas	Bananas - Cavendish (unripened)	Musa AAA ssp. Cavendish	M	M	M	M	M	M	-	-	-	-	R	-	-	-	-	-	M	M	M	M	M	M	M	EU 1333/2011
Fruits – Unprepared/Unprocessed (Fresh)	Bananas	Plantain Bananas	Musa x paradisiaca	M	M	M	M	M	-	-	R	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Bananas	Red Bananas (ripened)	Musa	M	O	M	M	M	-	-	-	-	-	R	-	-	-	-	-	M	M	M	M	M	M	M	EU 1333/2011
Fruits – Unprepared/Unprocessed (Fresh)	Bananas	Red Bananas (unripened)	Musa	M	M	M	M	M	-	-	-	-	-	R	-	-	-	-	-	M	M	M	M	M	M	M	EU 1333/2011
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	American Cranberries	Vaccinium macrocarpon	M	M	M	M	M	M	-	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-57
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Aronia Berries	Aronia	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Bilberries	Vaccinium myrtillus L	M	M	M	M	M	M	-	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-57
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Black Currants	Ribes nigrum L	M	M	M	M	M	M	-	M	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-57
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Blackberries	Rubus sect. Rubus	M	M	M	M	M	M	-	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-57

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Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Blueberries	Vaccinium corymbosum L., Vaccinium formosum Andrews, Vaccinium angustifolium Aiton, Vaccinium virgatum Aiton	M	M	M	M	M	M	-	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-57
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Boysenberries	Rubus ursinus Cham. et Schltdl. x Rubus	M	M	M	M	M	M	-	-	-	O	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-57
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Cloudberries	Rubus chamaemorus	M	M	M	M	M	M	-	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-57
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Cranberries	Vaccinium oxycoccus L.	M	M	M	M	M	M	-	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-57
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Elderberries	Sambucus nigra	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Goji Berries	Lycium barbarum	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Gooseberries	Ribes uva-crispa L.	M	M	M	M	M	M	-	M	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-57
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Jostaberries	Ribes nigrum L. x Ribes uva-crispa L.	M	M	M	M	M	M	-	-	-	O	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-57

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Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Lingonberries	Vaccinium vitis-idaea L.	M	M	M	M	M	M	-	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-57
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Loganberries	Rubus loganobaccus L. H. Bailey	M	M	M	M	M	M	-	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-57
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Raspberries	Rubus idaeus	M	M	M	M	M	M	-	M	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-57
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Red Currants	Ribes rubrum L.	M	M	M	M	M	M	-	M	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-57
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Strawberries	Fragaria	M	M	M	M	M	M	-	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/7
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Table Grapes	Vitis vinifera	M	M	M	M	M	M	-	-	-	M	CM	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/9
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Tayberries	Rubus sect. Rubus x Rubus idaeus L.	M	M	M	M	M	M	-	-	-	O	CM	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-57
Fruits – Unprepared/Unprocessed (Fresh)	Berries/Small Fruit	Wood Strawberries	Fragaria vesca L.	M	M	M	M	M	M	-	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/7
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Bergamot Oranges	Citrus bergamia	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Bitter Oranges	Citrus aurantium ssp. aurantium	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A

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Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Blood Oranges	Citrus sinensis	M	M	M	M	M	M	M	-	-	M	-	-	C M	-	-	O	M	M	M	M	M	M	M	EU 543/2011 B/2
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Blood Oranges for juice	Citrus sinensis	M	M	M	M	M	M	M	-	-	M	-	-	C M	-	-	O	M	M	M	M	M	M	M	EU 543/2011 B/2
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Caviar Limes	Citrus australasica	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Citrons	Citrus medica	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Clementines	Citrus clementina	M	M	M	M	M	M	M	-	-	O	O	-	C M	-	-	O	M	M	M	M	M	M	M	EU 543/2011 B/2
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Clementines for juice	Citrus clementina	M	M	M	M	M	M	M	-	-	O	O	-	C M	-	-	O	M	M	M	M	M	M	M	EU 543/2011 B/2
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Grapefruits	Citrus paradisi	M	M	M	M	M	M	M	-	-	O	O	-	C M	-	-	O	M	M	M	M	M	M	M	UNECE FFV-14
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Grapefruits for juice	Citrus paradisi	M	M	M	M	M	M	M	-	-	O	O	-	C M	-	-	O	M	M	M	M	M	M	M	UNECE FFV-14
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Honey Pomelos/Shaddocks	Citrus maxima x Citrus paradisi	M	M	M	M	M	M	M	-	-	O	O	-	C M	-	-	O	M	M	M	M	M	M	M	UNECE FFV-14
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Indian Lime/Palestine Lime	Citrus limettioides	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	O	M	M	M	M	M	M	M	UNECE FFV-14

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Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Kumquats	Fortunella	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Lemons	Citrus limon	M	M	M	M	M	M	M	-	-	M	O	-	CM	-	-	O	M	M	M	M	M	M	M	EU 543/2011 B/2
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Limequats	Citrus aurantiifolia x Fortunella	M	M	M	M	M	M	M	-	-	O	-	-	CM	-	-	O	M	M	M	M	M	M	M	UNECE FFV-14
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Mandarin Hybrids	Citrus reticulata	M	M	M	M	M	M	M	-	-	M	-	-	CM	-		O	M	M	M	M	M	M	M	EU 543/2011 B/2
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Mandarins	Citrus reticulata Blanco	M	M	M	M	M	M	M	-	-	M	-	-	CM	-		O	M	M	M	M	M	M	M	EU 543/2011 B/2
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Mandoras	Citrus reticulata x Citrus sinensis	M	M	M	M	M	M	M	-	-	M	-	-	CM	-	-	O	M	M	M	M	M	M	M	UNECE FFV-14
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Mediterranean Mandarins	Citrus deliciosa	M	M	M	M	M	M	M	-	-	M	O	-	CM	-	-	O	M	M	M	M	M	M	M	EU 543/2011 B/2
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Mexican Limes	Citrus aurantiifolia	M	M	M	M	M	M	M	-	-	O	-	-	CM	-	-	O	M	M	M	M	M	M	M	UNECE FFV-14
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Meyer Lemons	Citrus meyeri	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Minneola (Tangelo)	Citrus paradisi x Citrus reticulata	M	M	M	M	M	M	M	-	-	M	-	-	CM	-	-	O	M	M	M	M	M	M	M	UNECE FFV-14

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Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Oranges	Citrus sinensis	M	M	M	M	M	M	M	-	-	M	-	-	C M	-	-	O	M	M	M	M	M	M	M	EU 543/2011 B/2
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Oranges for juice	Citrus sinensis	M	M	M	M	M	M	M	-	-	M	-	-	C M	-	-	O	M	M	M	M	M	M	M	EU 543/2011 B/2
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Persian Limes	Citrus latifolia	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	O	M	M	M	M	M	M	M	UNECE FFV-14
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Pummelos	Citrus maxima	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	O	M	M	M	M	M	M	M	UNECE FFV-14
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Satsuma	Citrus unshiu Marcow.	M	M	M	M	M	M	M	-	-	O	O	-	C M	-	-	O	M	M	M	M	M	M	M	EU 543/2011 B/2
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Sweeties	Citrus maxima x Citrus paradisi	M	M	M	M	M	M	M	-	-	O	O	-	C M	-	-	O	M	M	M	M	M	M	M	UNECE FFV-14
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Tangerines/Other Mandarins	Citrus tangerina / Citrus deliciosa	M	M	M	M	M	M	M	-	-	M	O	-	C M	-	-	O	M	M	M	M	M	M	M	EU 543/2011 B/2
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Tangor	Citrus reticulata x Citrus sinensis	M	M	M	M	M	M	M	-	-	M	-	-	C M	-		O	M	M	M	M	M	M	M	EU 543/2011 B/2
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Uglis	Citrus reticulata x Citrus Paradisi	M	M	M	M	M	M	M	-	-	O	O	-	C M	-	-	O	M	M	M	M	M	M	M	UNECE FFV-14
Fruits – Unprepared/Unprocessed (Fresh)	Citrus	Yuzus and other bitter oranges	Citrus junos	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A

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Fruits – Unprepared/Unprocessed (Fresh)	Kiwifruits	Kiwi Berries	Actinidia Arguta	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Kiwifruits	Kiwifruits	Actinidia deliciosa	M	M	M	M	M	M	M	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/ 2011 B/ 3
Fruits – Unprepared/Unprocessed (Fresh)	Kiwifruits	Kiwifruits - Mini	Actinidia deliciosa, Actinidia chinensis	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Kiwifruits	Kiwifruits Gold	Actinidia chinensis	M	M	M	M	M	M	M	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/ 2011 B/ 3
Fruits – Unprepared/Unprocessed (Fresh)	Kiwifruits	Red Sun Kiwis	Actinidia chinensis	M	M	M	M	M	M	M	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/ 2011 B/ 3
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Achacha	Rheedia laterifolia	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Cape Gooseberries	Physalis peruviana	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Carambola	Averrhoa carambola	M	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX ALIMENTARIUS STAN 187-1993
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Cassia	Cassia fistula	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Dates	Phoenix dactylifera	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A

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Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Durian	Durio zibethinus	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Feijoas	Acca sellowiana	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Figs	Ficus carica	M	M	M	M	M	M	M	-	-	C M	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-17
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Figs - Mini	Ficus carica	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Guavas	Psidium guajava	M	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX ALIMENTARIUS STAN 215-1999
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Jackfruit	Artocarpus heterophyllus	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Longan	Dimocarpus longan	M	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX ALIMENTARIUS STAN 220-1999
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Lychees	Litchi chinensis	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX ALIMENTARIUS STAN 196-1995
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Mangos	Mangifera indica	M	M	M	M	M	M	M	-	-	M	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-45
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Mangosteen	Garcinia mangostana	M	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX ALIMENTARIUS STAN 204-1997

GPC Family	GPC Class	Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Mass-flow Relevant Certification	Premium Attributes	Class / Grade	Size	Colour	Shape	Variety	Commercial Type	Colour of Flesh	Post-Harvest Treatment (chem/wax)	Post-Harvest Processing (phys)	Cooking Type	Seed Characteristics	Content/Quantity of Pre-Packed Unit	Content/Quantity of Trade Unit	Packaging Type of Pre-Packed Unit	Packaging Type of Trade Unit	RTI-Type	Composition of Pre-Packed Unit	Composition of mixed Trade Units	Relevant Regulation or Standard
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Mexican Sour Gherkin	Melothria scabra	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Pomegranates	Punica granatum	M	M	M	M	M	M	C M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX ALIMENTARIUS STAN 310-2013
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Prickly Pears/Barbary Figs	Opuntia ficus-indica	M	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX ALIMENTARIUS STAN 186-1993
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Rambutan	Nephelium lappaceum	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX ALIMENTARIUS STAN 246-2005
Fruits – Unprepared/Unprocessed (Fresh)	Miscellaneous Fruit	Salak Fruits/Snake Fruits	Salacca zalacca	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Papayas	Babacos	Carica pentagona	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Papayas	Papayas	Carica papaya	M	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX ALIMENTARIUS STAN 183
Fruits – Unprepared/Unprocessed (Fresh)	Passionfruits	Curubas	Passiflora mollissima	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Passionfruits	Purple Maracujas	Passiflora edulis edulis	M	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX ALIMENTARIUS STAN 316-2014
Fruits – Unprepared/Unprocessed (Fresh)	Passionfruits	Sweet Granadilla	Passiflora ligularis	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX ALIMENTARIUS STAN 316-2014

GPC Family	GPC Class	Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Mass-flow Relevant Certification	Premium Attributes	Class / Grade	Size	Colour	Shape	Variety	Commercial Type	Colour of Flesh	Post-Harvest Treatment (chem/wax)	Post-Harvest Processing (phys)	Cooking Type	Seed Characteristics	Content/Quantity of Pre-Packed Unit	Content/Quantity of Trade Unit	Packaging Type of Pre-Packed Unit	Packaging Type of Trade Unit	RTI-Type	Composition of Pre-Packed Unit	Composition of mixed Trade Units	Relevant Regulation or Standard
Fruits – Unprepared/Unprocessed (Fresh)	Passionfruits	Yellow Maracujas	Passiflora edulis flavicarpa	M	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX STAN 316-2014
Fruits – Unprepared/Unprocessed (Fresh)	Persimmon	American Persimmons	Diospyros virginiana	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Persimmon	Kakis/Sharon Fruits	Diospyros kaki	M	M	M	M	M	M	C M	-	-	M	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV 63
Fruits – Unprepared/Unprocessed (Fresh)	Pineapples	Baby pPineapples	Ananas comosus	M	M	M	M	M	M	M	O	-	C M	-	-	-	O	-	-	M	M	M	M	M	M	M	UNECE FFV-49
Fruits – Unprepared/Unprocessed (Fresh)	Pineapples	Pineapples	Ananas comosus	M	M	M	M	M	M	M	O	-	C M	-	-	-	O	-	-	M	M	M	M	M	M	M	UNECE FFV-49
Fruits – Unprepared/Unprocessed (Fresh)	Pitahayas	Redfleshed Sweet Pitayas	Hylocereus polyrhizus	M	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX ALIMENTARIUS STAN 237-2003
Fruits – Unprepared/Unprocessed (Fresh)	Pitahayas	Whitefleshed Sweet Pitayas	Hylocereus undatus	M	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX ALIMENTARIUS STAN 237-2003
Fruits – Unprepared/Unprocessed (Fresh)	Pitahayas	Yellow Pitayas	Selenicereus megalanthus	M	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX STAN 237-2003
Fruits – Unprepared/Unprocessed (Fresh)	Pome Fruits	Apples	Malus domestica	M	M	M	M	M	M	M	-	-	M	-	-	C M	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/1
Fruits – Unprepared/Unprocessed (Fresh)	Pome Fruits	Medlar	Mespilus germanica	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A

GPC Family	GPC Class	Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Mass-flow Relevant Certification	Premium Attributes	Class / Grade	Size	Colour	Shape	Variety	Commercial Type	Colour of Flesh	Post-Harvest Treatment (chem/wax)	Post-Harvest Processing (phys)	Cooking Type	Seed Characteristics	Content/Quantity of Pre-Packed Unit	Content/Quantity of Trade Unit	Packaging Type of Pre-Packed Unit	Packaging Type of Trade Unit	RTI-Type	Composition of Pre-Packed Unit	Composition of mixed Trade Units	Relevant Regulation or Standard
Fruits – Unprepared/Unprocessed (Fresh)	Pome Fruits	Nashis	Pyrus pyrifolia	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Pome Fruits	Pears	Pyrus communis	M	M	M	M	M	M	M	-	-	M	-	-	C M	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/6
Fruits – Unprepared/Unprocessed (Fresh)	Pome Fruits	Quinces	Cydonia oblonga	M	M	M	M	M	M	C M	-	-	M	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-62
Fruits – Unprepared/Unprocessed (Fresh)	Pome Fruits	Shandong Pears	Pyrus ussuriensis var. viridis	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Fruits – Unprepared/Unprocessed (Fresh)	Stone Fruit	Apricots	Prunus armeniaca	M	M	M	M	M	M	C M	-	-	C M	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-02
Fruits – Unprepared/Unprocessed (Fresh)	Stone Fruit	Damsons	Prunus domestica L. ssp. institia	M	M	M	M	M	M	C M	-	-	M	R	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-29
Fruits – Unprepared/Unprocessed (Fresh)	Stone Fruit	Greengages	Prunus domestica L. ssp. Italica	M	M	M	M	M	M	C M	-	-	M	R	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV -29
Fruits – Unprepared/Unprocessed (Fresh)	Stone Fruit	Interspecific hybrids of apricots and plums that show apricot characteristics (e.g. Plumcot®, Aprium®)	Prunus armeniaca x Prunus domestica	M	M	M	M	M	M	C M	-	-	C M	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-02
Fruits – Unprepared/Unprocessed (Fresh)	Stone Fruit	Interspecific hybrids of nectarine and apricot (e.g. Nectacot®)	Prunus armeniaca x persica var. nucipera	M	M	M	M	M	-	R	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A

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Fruits – Unprepared/Unprocessed (Fresh)	Stone Fruit	Interspecific hybrids of plums and apricots that have plum characteristics (e.g. Pluot®)	Prunus armeniaca x Prunus salicina	M	M	M	M	M	M	C M	-	-	M	R	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-29
Fruits – Unprepared/Unprocessed (Fresh)	Stone Fruit	Mirabelles, Yellow Plums	Prunus domestica L. ssp. syriaca	M	M	M	M	M	M	C M	-	-	M	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-29
Fruits – Unprepared/Unprocessed (Fresh)	Stone Fruit	Nectarines	Prunus persica var. Nucipersica	M	M	M	M	M	M	C M	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/5
Fruits – Unprepared/Unprocessed (Fresh)	Stone Fruit	Paraguayos/Flat Peaches	Prunus persica var. Platycarpa	M	M	M	M	M	M	C M	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/5
Fruits – Unprepared/Unprocessed (Fresh)	Stone Fruit	Peaches	Prunus persica	M	M	M	M	M	M	C M	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/5
Fruits – Unprepared/Unprocessed (Fresh)	Stone Fruit	Plums	Prunus domestica L. ssp. domestica	M	M	M	M	M	M	C M	-	-	M	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-29
Fruits – Unprepared/Unprocessed (Fresh)	Stone Fruit	Sour Cherries	Prunus cerasus L.	M	M	M	M	M	M	-	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-13
Fruits – Unprepared/Unprocessed (Fresh)	Stone Fruit	Sweet Cherries	Prunus avium L.	M	M	M	M	M	M	-	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-13
Fruits – Unprepared/Unprocessed (Fresh)	Stone Fruit	Sweet Cherries - stemless	Prunus avium L.	M	M	M	M	M	M	-	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-13
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Chicory Leaves	Endive (curled)	Cichorium endivia L. var. crispum Lam	M	M	M	M	M	M	M	O	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/4

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Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Chicory Leaves	Puntarelle	Cichorium intybus var. Foliosum	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Chicory Leaves	Radicchio (Redloof)	Cichorium intybus L. var. foliosum Hegi	M	M	M	M	M	M	O	-	-	-	M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-38
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Chicory Leaves	Radicchio Rosso	Cichorium intybus var. Foliosum	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Chicory Leaves	Sugarloaf	Cichorium endivia L. var. latifolium Lam	M	M	M	M	M	M	M	O	-	O	C M	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/4
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Chicory Leaves	Witloof (Belgian Endive)	Cichorium intybus L. var. foliosum Hegi	M	M	M	M	M	M	O	-	-	-	M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-38
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Head Lettuce	Batavia	Lactuca sativa L. var. crispa L.	M	M	M	M	M	M	M	O	-	O	C M	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/4
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Head Lettuce	Head Lettuce (Butterhead)	Lactuca sativa L. var. capitata L.	M	M	M	M	M	M	M	O	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/4
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Head Lettuce	Iceberg Lettuce	Lactuca sativa L. var. capitata L.	M	M	M	M	M	M	M	O	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/4
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Head Lettuce	Romaine (Cos) Lettuce	Lactuca sativa var. longifolia	M	M	M	M	M	M	M	O	-	O	C M	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/4

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Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Loose Leaf/Multileaf Salad Greens	Lettuce potted / with Root Ball	Lactuta sativa	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Loose Leaf/Multileaf Salad Greens	Lollo Bionda	Lactuca sativa L. var. crispa L.	M	M	M	M	M	M	M	O	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/4
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Loose Leaf/Multileaf Salad Greens	Lollo Rosso	Lactuca sativa L. var. crispa L.	M	M	M	M	M	M	M	O	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/4
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Loose Leaf/Multileaf Salad Greens	Oakleaf Lettuce	Lactuca sativa L. var. crispa L.	M	M	M	M	M	M	M	O	-	O	C M	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/4
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Single Leaf Salad Greens	Baby Leaves	Various	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Single Leaf Salad Greens	Beetroot Leaves	Beta vulgaris L. var. conditiva	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Single Leaf Salad Greens	Chard	Beta vulgaris	M	M	M	M	M	M	-	-	-	-	-	O	-	-	C M	-	M	M	M	M	M	M	M	UNECE FFV-58
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Single Leaf Salad Greens	Chard	Beta vulgaris var. flavescens	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Single Leaf Salad Greens	Dandelion Greens/Lion's Tooth	Taraxacum officinale	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Single Leaf Salad Greens	Heart-Leaf	Aptenia cordifolia	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A

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Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Single Leaf Salad Greens	Lambs Lettuce	Valerianella locusta	M	M	M	M	M	M	-	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV 60
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Single Leaf Salad Greens	Purslane	Portulaca oleracea	M	M	M	M	M	-	C M	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Single Leaf Salad Greens	Rocket	Eruca sativa	M	M	M	M	M	M	-	-	-	-	O	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-58
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Single Leaf Salad Greens	Sorrel	Rumex acetosa	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Single Leaf Salad Greens	Watercress	Nasturtium officinale	M	M	M	M	M	M	-	-	-	-	O	-	-	C M	-	-	M	M	M	M	M	M	M	UNECE FFV-58
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Single Leaf Salad Greens	Winter-Purslane	Claytonia perfoliata	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Spinach (Fresh)	Spinach	Spinacia oleracea	M	M	M	M	M	M	-	-	-	-	O	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-58
Leaf Vegetables – Unprepared/Unprocessed (Fresh)	Spinach (Fresh)	Water Spinach/Ong Choy	Ipomoea aquatica	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Beans (With Pods)	Broad Beans	Vicia faba	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Beans (With Pods)	French/Wax Beans	Phaseolus vulgaris	M	M	M	M	M	M	C M	-	-	O	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-06

GPC Family	GPC Class	Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Mass-flow Relevant Certification	Premium Attributes	Class / Grade	Size	Colour	Shape	Variety	Commercial Type	Colour of Flesh	Post-Harvest Treatment (chem/wax)	Post-Harvest Processing (phys)	Cooking Type	Seed Characteristics	Content/Quantity of Pre-Packed Unit	Content/Quantity of Trade Unit	Packaging Type of Pre-Packed Unit	Packaging Type of Trade Unit	RTI-Type	Composition of Pre-Packed Unit	Composition of mixed Trade Units	Relevant Regulation or Standard
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Beans (With Pods)	Mung Beans	Vigna radiata	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Beans (With Pods)	Princess Beans	Phaseolus vulgaris	M	M	M	M	M	M	M	-	-	O	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-06
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Beans (With Pods)	Runner Beans	Phaseolus coccineus	M	M	M	M	M	M	C M	-	-	O	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-06
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Beans (With Pods)	Tamarind	Tamarindus indica	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Autumn Turnips	Brassica rapa var. rapa subvar. Esculent	M	M	M	M	M	M	-	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Bimi and Other Brassica Interbreeds	Brassica Interbreeds	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Broccoli	Brassica oleracea L. var. italica	M	M	M	M	M	M	C M	O	-	-	C M	-	-	-	C M	-	M	M	M	M	M	M	M	UNECE FFV 48
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Brussel Sprouts	Brassica oleracea L. var. gemmifera	M	M	M	M	M	M	M	C M	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-08
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Cauliflower	Brassica oleracea L. convar. botrytis	M	M	M	M	M	M	M	O	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-11
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Chinese Cabbages	Brassica pekinensis	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-44

GPC Family	GPC Class	Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Mass-flow Relevant Certification	Premium Attributes	Class / Grade	Size	Colour	Shape	Variety	Commercial Type	Colour of Flesh	Post-Harvest Treatment (chem/wax)	Post-Harvest Processing (phys)	Cooking Type	Seed Characteristics	Content/Quantity of Pre-Packed Unit	Content/Quantity of Trade Unit	Packaging Type of Pre-Packed Unit	Packaging Type of Trade Unit	RTI-Type	Composition of Pre-Packed Unit	Composition of mixed Trade Units	Relevant Regulation or Standard
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Choi Sum	Brassica parachinensis	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Gai Choy (Mustard Greens)	Brassica juncea	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Gai Lan	Brassica oleracea var. alboglabra	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Kale	Brassica oleracea var. Sabellica	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Kohlrabi	Brassica oleracea var. gongylode	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	May Turnips	Brassica rapa var. rapifera subvar. majalis	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Pak Choi	Brassica rapa ssp. chinensis	M	M	M	M	M	-	-	C M	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Palm Kale	Brassica oleracea var. palmifolia	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Pointed Cabbage	Brassica oleracea convar. Capitata	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-09
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Rapini	Brassica rapa var. cymosa	M	M	M	M	M	M	-	-	-	-	O	-	-	C M	-	-	M	M	M	M	M	M	M	UNECE FFV-58

GPC Family	GPC Class	Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Mass-flow Relevant Certification	Premium Attributes	Class / Grade	Size	Colour	Shape	Variety	Commercial Type	Colour of Flesh	Post-Harvest Treatment (chem/wax)	Post-Harvest Processing (phys)	Cooking Type	Seed Characteristics	Content/Quantity of Pre-Packed Unit	Content/Quantity of Trade Unit	Packaging Type of Pre-Packed Unit	Packaging Type of Trade Unit	RTI-Type	Composition of Pre-Packed Unit	Composition of mixed Trade Units	Relevant Regulation or Standard
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Red Cabbage	Brassica oleracea convar. Capitata	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-09
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Romanesco	Brassica oleracea convar. botrytis	M	M	M	M	M	M	M	O	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-11
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Siberian Kale Leaves	Brassica napus pabularia	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Swedish Turnips (Rutabagas)	Brassica napus var. Napobrassica	M	M	M	M	M	M	-	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Tatsoi	Brassica rapa var. Rosularis	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Teltow Turnips	Brassica rapa L. ssp. rapa f. teltowiensis (pygmaea)	M	M	M	M	M[6]	M	-	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	Turnip Tops	Brassica rapa var. rapifera subvar. Pabularia	M	M	M	M	M	M	-	-	-	-	O	-	-	C M	-	-	M	M	M	M	M	M	M	UNECE FFV-58
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Brassica Vegetables	White Cabbages	Brassica oleracea convar. Capitata	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-09
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Bulb Vegetables	Elephant Garlic	Allium ampeloprasum	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Bulb Vegetables	Garlic	Allium sativum	M	M	M	M	M	M	M	-	-	-	-	-	-	-	C M	-	-	M	M	M	M	M	M	M	UNECE FFV-18

GPC Family	GPC Class	Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Mass-flow Relevant Certification	Premium Attributes	Class / Grade	Size	Colour	Shape	Variety	Commercial Type	Colour of Flesh	Post-Harvest Treatment (chem/wax)	Post-Harvest Processing (phys)	Cooking Type	Seed Characteristics	Content/Quantity of Pre-Packed Unit	Content/Quantity of Trade Unit	Packaging Type of Pre-Packed Unit	Packaging Type of Trade Unit	RTI-Type	Composition of Pre-Packed Unit	Composition of mixed Trade Units	Relevant Regulation or Standard
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Bulb Vegetables	Grey Shallots	Allium oschaninii	M	M	M	M	M	M	M	-	-	-	M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-56
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Bulb Vegetables	Kurrat	Allium porrum var sectivum	M	M	M	M	M	M	-	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-21
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Bulb Vegetables	Onions	Allium cepa	M	M	M	M	M	M	M	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-25
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Bulb Vegetables	Shallots	Allium ascalonicum	M	M	M	M	M	M	M	-	-	-	M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-56
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Bulb Vegetables	Silverskin Onions	Allium cepa	M	M	M	M	M	M	M	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-25
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Bulb Vegetables	Spring (or Spanish) Onions	Allium fistulosum	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Bulb Vegetables	Spring Garlic	Allium sativum	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Bulb Vegetables	Thai Shallots	Allium ascalonicum	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Cucumbers	Braising Cucumber	Cucumis sativus	M	M	M	M	M	M	C M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-15
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Cucumbers	Crooked Cucumber	Cucumis sativus	M	M	M	M	M	M	C M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-15

GPC Family	GPC Class	Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Mass-flow Relevant Certification	Premium Attributes	Class / Grade	Size	Colour	Shape	Variety	Commercial Type	Colour of Flesh	Post-Harvest Treatment (chem/wax)	Post-Harvest Processing (phys)	Cooking Type	Seed Characteristics	Content/Quantity of Pre-Packed Unit	Content/Quantity of Trade Unit	Packaging Type of Pre-Packed Unit	Packaging Type of Trade Unit	RTI-Type	Composition of Pre-Packed Unit	Composition of mixed Trade Units	Relevant Regulation or Standard
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Cucumbers	Cucumbers	Cucumis sativus	M	M	M	M	M	M	C M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-15
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Cucumbers	Gherkins	Cucumis sativus	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Cucurbits – Edible Peel	Bitter Melon	Momordica charantia	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Cucurbits – Edible Peel	Courgettes	Cucurbita pepo L.	M	M	M	M	M	M	C M	O	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-41
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Cucurbits – Edible Peel	Squash (Choko)	Sechium edule	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Cucurbits – Edible Peel	Squash (Opo)	Lagenaria siceraria	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Cucurbits – Inedible Peel	Pumpkins/Winter Squash	Cucurbita maxima	M	M	M	M	M	-	-	-	-	-	R	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Edible Flowers	Edible Flowers	various	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Fungi	Cep	Boletus edulis	M	M	M	M	M	M	C M	-	-	O	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-54
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Fungi	Chanterelles	Cantharellus cibarius	M	M	M	M	M	M	C M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-55

GPC Family	GPC Class	Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Mass-flow Relevant Certification	Premium Attributes	Class / Grade	Size	Colour	Shape	Variety	Commercial Type	Colour of Flesh	Post-Harvest Treatment (chem/wax)	Post-Harvest Processing (phys)	Cooking Type	Seed Characteristics	Content/Quantity of Pre-Packed Unit	Content/Quantity of Trade Unit	Packaging Type of Pre-Packed Unit	Packaging Type of Trade Unit	RTI-Type	Composition of Pre-Packed Unit	Composition of mixed Trade Units	Relevant Regulation or Standard
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Fungi	Common Cultivated Mushrooms (Agaricus)	Agaricus bisporus	M	M	M	M	M	M	C M	C M	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-24
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Fungi	Cultivated Mushrooms/Fungi (except Common Cultivated Mushrooms)	various	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	-/-
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Fungi	Mushrooms - Mixed Pack	various	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Fungi	Potted Cultivated Mushrooms	various	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Fungi	Truffles	Tuber	M	M	M	M	M	M	-	-	-	-	M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-53
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Fungi	Wild Mushrooms (Other) except Chanterelles, Cep, Truffles etc.	various	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Herbs	Herbs - cut	various	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Herbs	Herbs - potted	various	M	M	M	M	M	-	C M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Herbs	Herbs with root ball	various	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Cantaloupe Melons	Cucumis melo	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	-	M	M	M	M	M	M	M	UNECE FFV-23

GPC Family	GPC Class	Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Mass-flow Relevant Certification	Premium Attributes	Class / Grade	Size	Colour	Shape	Variety	Commercial Type	Colour of Flesh	Post-Harvest Treatment (chem/wax)	Post-Harvest Processing (phys)	Cooking Type	Seed Characteristics	Content/Quantity of Pre-Packed Unit	Content/Quantity of Trade Unit	Packaging Type of Pre-Packed Unit	Packaging Type of Trade Unit	RTI-Type	Composition of Pre-Packed Unit	Composition of mixed Trade Units	Relevant Regulation or Standard
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Melons - Ananas d´Amérique	Cucumis melo	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	-	M	M	M	M	M	M	M	UNECE FFV-23
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Melons - Baskavas	Cucumis melo	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	-	M	M	M	M	M	M	M	UNECE FFV-23
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Melons - Branco	Cucumis melo	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	-	M	M	M	M	M	M	M	UNECE FFV-23
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Melons - Galia	Cucumis melo	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	-	M	M	M	M	M	M	M	UNECE FFV-23
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Melons - Green Charentais	Cucumis melo	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	-	M	M	M	M	M	M	M	UNECE FFV-23
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Melons - Green Eastern Shipper	Cucumis melo	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	-	M	M	M	M	M	M	M	UNECE FFV-23
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Melons - Honeydew	Cucumis melo	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	-	M	M	M	M	M	M	M	UNECE FFV-23
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Melons - Kirkagac	Cucumis melo	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	-	M	M	M	M	M	M	M	UNECE FFV-23
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Melons - Ogen	Cucumis melo	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	-	M	M	M	M	M	M	M	UNECE FFV-23
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Melons - Piel de Sapo	Cucumis melo	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	-	M	M	M	M	M	M	M	UNECE FFV-23

GPC Family	GPC Class	Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Mass-flow Relevant Certification	Premium Attributes	Class / Grade	Size	Colour	Shape	Variety	Commercial Type	Colour of Flesh	Post-Harvest Treatment (chem/wax)	Post-Harvest Processing (phys)	Cooking Type	Seed Characteristics	Content/Quantity of Pre-Packed Unit	Content/Quantity of Trade Unit	Packaging Type of Pre-Packed Unit	Packaging Type of Trade Unit	RTI-Type	Composition of Pre-Packed Unit	Composition of mixed Trade Units	Relevant Regulation or Standard
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Melons - Rochet	Cucumis melo	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	-	M	M	M	M	M	M	M	UNECE FFV-23
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Melons - Tendral	Cucumis melo	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	-	M	M	M	M	M	M	M	UNECE FFV-23
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Melons - Yellow Charentais	Cucumis melo	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	-	M	M	M	M	M	M	M	UNECE FFV-23
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Melons - Yellow Eastern Shipper	Cucumis melo	M	M	M	M	M	M	M	-	-	O	-	-	C M	-	-	-	M	M	M	M	M	M	M	UNECE FFV-23
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Melons (Horned) / Kiwano	Cucumis metuliferus	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Watermelons	Citrullus lanatus	M	M	M	M	M	M	C M	-	-	O	-	-	-	-	-	C M	M	M	M	M	M	M	M	UNECE FFV-37
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Melons	Watermelons - mini	Citrullus lanatus	M	M	M	M	M	M	C M	-	-	O	-	-	-	-	-	C M	M	M	M	M	M	M	M	UNECE FFV-37
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Micro Vegetables	Seedlings - Ready to Eat	various	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	-/-
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Micro Vegetables	Sprouts	various	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	-/-
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Other Vegetables	Carobs	Ceratonia siliqua	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A

GPC Family	GPC Class	Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Mass-flow Relevant Certification	Premium Attributes	Class / Grade	Size	Colour	Shape	Variety	Commercial Type	Colour of Flesh	Post-Harvest Treatment (chem/wax)	Post-Harvest Processing (phys)	Cooking Type	Seed Characteristics	Content/Quantity of Pre-Packed Unit	Content/Quantity of Trade Unit	Packaging Type of Pre-Packed Unit	Packaging Type of Trade Unit	RTI-Type	Composition of Pre-Packed Unit	Composition of mixed Trade Units	Relevant Regulation or Standard
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Other Vegetables	Okra	Abelmoschus esculentus	M	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX ALIMENTARIUS STAN 318-2014
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Other Vegetables	Sweetcorn	Zea mays var. saccharata	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peas (With Pods)	Peas	Pisum sativum L. ssp. sativum	M	M	M	M	M	M	-	-	-	-	M	-	-	C M	-	-	M	M	M	M	M	M	M	UNECE FFV-27
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peas (With Pods)	Snow Peas	Pisum sativum var. saccharatum	M	M	M	M	M	M	-	-	-	-	-	-	-	C M	-	-	M	M	M	M	M	M	M	UNECE FFV-27
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peas (With Pods)	Sugar Snap Peas	Pisum sativum ssp. sativum var macrocarpon	M	M	M	M	M	M	-	-	-	-	-	-	-	C M	-	-	M	M	M	M	M	M	M	UNECE FFV-27
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Cayenne Peppers	Capsicum annuum var. Acuminatum	M	M	M	M	M	M	C M	O	-	-	M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-61
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Cherry Chili Peppers	Capsicum annuum	M	M	M	M	M	M	C M	O	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-61
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Chili Peppers	Capsicum frutescens	M	M	M	M	M	M	C M	O	-	-	M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-61
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Habanero Peppers	Capsicum chinense	M	M	M	M	M	M	C M	O	-	-	M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-61
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Hot Peppers	Capsicum annuum var. longum Solanaceae	M	M	M	M	M	M	C M	M	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/ 2011 B/8

GPC Family	GPC Class	Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Mass-flow Relevant Certification	Premium Attributes	Class / Grade	Size	Colour	Shape	Variety	Commercial Type	Colour of Flesh	Post-Harvest Treatment (chem/wax)	Post-Harvest Processing (phys)	Cooking Type	Seed Characteristics	Content/Quantity of Pre-Packed Unit	Content/Quantity of Trade Unit	Packaging Type of Pre-Packed Unit	Packaging Type of Trade Unit	RTI-Type	Composition of Pre-Packed Unit	Composition of mixed Trade Units	Relevant Regulation or Standard
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Jalapeño Peppers	Capsicum annuum	M	M	M	M	M	M	C M	O	-	-	M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV 61
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Naga Jolokia Peppers	Capsicum chinense	M	M	M	M	M	M	C M	O	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-61
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Peppadew Peppers	Capsicum baccatum	M	M	M	M	M	M	C M	O	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV 61
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Poblano Peppers	Capsicum annuum	M	M	M	M	M	M	C M	O	-	-	M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-61
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Rawit Chili Peppers	Capsicum frutescens	M	M	M	M	M	M	C M	O	-	-	M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV 61
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Rocoto de seda Peppers	Capsicum pubescens	M	M	M	M	M	M	C M	O	-	-	M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV 61
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Serrano Peppers	Capsicum annuum	M	M	M	M	M	M	C M	O	-	-	M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV 61
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Shishito Peppers	Capsicum annuum	M	M	M	M	M	M	C M	O	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-61
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Square Sweet Peppers (Blunt)	Capsicum annuum var. grossum	M	M	M	M	M	M	C M	M	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/8
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Square Tapering Sweet Peppers (Peg Top)	Capsicum annuum var. grossum	M	M	M	M	M	M	C M	M	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/8

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Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Sweet Peppers (Pointed)	Capsicum annuum var. conioidis	M	M	M	M	M	M	C M	M	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/8
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Peppers	Sweet Peppers (Tomato Peppers)	Capsicum annuum var. grossum	M	M	M	M	M	M	C M	M	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/8
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Beetroots	Beta vulgaris subsp. Vulgaris	M	M	M	M	M	M	-	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Burdock Roots	Bardanae radix	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Candy Cane Beets	Beta vulgaris subsp. Vulgaris	M	M	M	M	M	M	-	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Carrots	Daucus carota	M	M	M	M	M	M	O	C M	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-10
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Cassava	Manihot esculenta Crantz	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Celeriac	Apium graveolens var. Rapaceum	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Crosne	Stachys affinis	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Curcuma	Curcuma Longa	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A

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Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Galanga Roots	Alpinia galanga	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Ginger	Zingiber officinale Roscoe	M	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	CODEX ALIMENTARIUS STAN 218-1999
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Horseradish	Cochlearia armoracia syn. Armoracia rusticana	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Jerusalem Artichokes	Helianthus tuberosus	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Lotus Roots	Nelumbo nucifera	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Mashua (Capucine Tubereuse)	Tropaeolum tuberosum	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Oca	Oxalis tuberosa	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Pale-leaf Woodland Sunflower Roots	Helianthus strumosus	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Parsley Roots	Petroselinum crispum var. Tuberosum	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Parsnips	Pastinaca sativa	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59

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Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Potatoes	Solanum tuberosum	M	M	M	M	M	-	C M	O	O	M	C M	-	-	-	O	-	M	M	M	M	M	M	M	UNECE FFV-52
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Purple Salsify	Tragopogon porrifolius	M	M	M	M	M	M	-	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Radishes / Black Radishes	Raphanus sativus convar. sativus, Radish Group	M	M	M	M	M	M	-	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Root Chicory	Cichorium intybus var. Sativum	M	M	M	M	M	M	-	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Scorzonera	Scorzonera hispanica	M	M	M	M	M	M	-	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Small Radishes	Raphanus sativus convar. sativus, Small Radish Group	M	M	M	M	M	M	-	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Sweet Potatoes	Ipomoea batatas	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Turnip Rooted Chervil	Chaerophyllum bulbosum	M	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Wasabi	Eutrema japonicum	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A

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Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	White Beetroots	Beta vulgaris subsp. Vulgaris	M	M	M	M	M	M	-	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Yams	Dioscorea	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Root/Tuber Vegetables	Yellow Beetroots	Beta vulgaris subsp. Vulgaris	M	M	M	M	M	M	-	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-59
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Sapote	Sapodilla	Manilkara zapota	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Solanacea/Others	Auberginen	Solanum melongena	M	M	M	M	M	M	C M	O	-	O	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-05
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Solanacea/Others	Lulo / Naranjilla	Solanum quitoense	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Solanacea/Others	Pepino	Solanum muricatum	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Solanacea/Others	Tamarillo	Cyphomandra betacea	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Solanacea/Others	Tomatillos	Physalis philadelphica	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Stem Vegetables	Asparagus	Asparagus officinalis	M	M	M	M	M	M	C M	M	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-04

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Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Stem Vegetables	Celery	Apium graveolens L. var. dulce Mill.	M	M	M	M	M	M	C M	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-12
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Stem Vegetables	Globe Artichokes	Cynara scolymus	M	M	M	M	M	M	C M	-	-	C M	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-03
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Stem Vegetables	Leek	Allium porrum	M	M	M	M	M	M	-	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-21
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Stem Vegetables	Palm Hearts	Euterpe edulis, Euterpe oleracea, Orbignya	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Stem Vegetables	Rhubarb	Rheum rhaponticum	M	M	M	M	M	M	-	-	-	-	C M	-	-	-	-	-	M	M	M	M	M	M	M	UNECE FFV-40
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Stem Vegetables	Wild Asparagus / Prussian Asparagus	Ornithogalum pyrenaicum	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Succulent	Aloe Vera	Aloe Vera	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Sugar Canes	Sugar Cane	Saccharum officinarum	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Tidal Sea Vegetables	Glasswort	Salicornia	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Tomatoes	Cherry Tomatoes - Oblong	Solanum lycopersicum	M	M	M	M	M	M	C M	O	-	O	C M	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/10

| GPC Family	GPC Class	Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Mass-flow Relevant Certification	Premium Attributes	Class / Grade	Size	Colour	Shape	Variety	Commercial Type	Colour of Flesh	Post-Harvest Treatment (chem/wax)	Post-Harvest Processing (phys)	Cooking Type	Seed Characteristics	Content/Quantity of Pre-Packed Unit	Content/Quantity of Trade Unit	Packaging Type of Pre-Packed Unit	Packaging Type of Trade Unit	RTI-Type	Composition of Pre-Packed Unit	Composition of mixed Trade Units	Relevant Regulation or Standard
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Tomatoes	Cherry Tomatoes - Round	Solanum lycopersicum	M	M	M	M	M	M	C M	O	-	O	C M	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/10
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Tomatoes	Tomatoes - Oblong	Solanum lycopersicum	M	M	M	M	M	M	C M	O	-	O	C M	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/10
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Tomatoes	Tomatoes - Ribbed	Solanum lycopersicum	M	M	M	M	M	M	C M	O	-	O	C M	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/10
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Tomatoes	Tomatoes - Round	Solanum lycopersicum	M	M	M	M	M	M	C M	O	-	O	C M	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/10
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Tomatoes	Tomatoes Variety Packs	Solanum lycopersicum	M	M	M	M	M	M	C M	O	-	O	C M	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 B/10
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Vegetables – Unprepared/Unprocessed (Fresh) Variety Packs	Other Vegetables Variety Packs	various	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A
Vegetables (Non Leaf) – Unprepared/Unprocessed (Fresh)	Vegetables – Unprepared/Unprocessed (Fresh) Variety Packs	Soup Vegetables	various	M	M	M	M	M	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M	M	EU 543/2011 A

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7. Annex B - Packaging Hierarchy GTIN Assignment

Assigning GTINs take place at different levels of packaging such as individual items, cases and pallets. Below, we have provided the various different options that are available today for assigning GTINs for multiple levels of packaging. The following three scenarios illustrate how to assign GTINs at various item and package levels; note that uniqueness can be achieved by using different Indicator Digits or different Item Reference Numbers at the higher levels of packaging.

A. Different Item Reference Numbers for higher levels of packaging

It is acceptable to utilize the digit '0' in the Indicator Digit position at all hierarchy levels, while providing a different Item Reference Number at each level to ensure uniqueness (as shown in Figure 2a). 'C' is a placeholder for the automatically-calculated Check Digit and is the 14th digit of the GTIN.

Figure 2a:
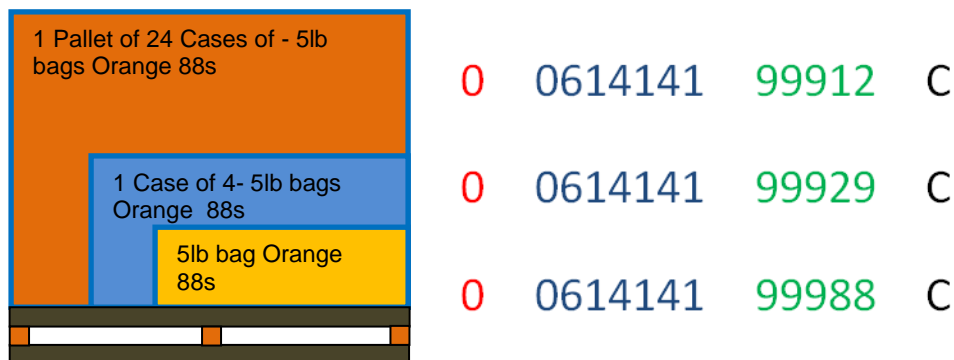
B. Indicator Digit for higher levels of packaging

Depending on the length of an organization's GS1 Company Prefix, using different packaging hierarchy levels (as noted below) will conserve the amount of numbers available for use as the item reference number.

It is acceptable to utilize the digits '1' to '8' in the Indicator Digit position at the designated hierarchy levels, while maintaining the same Item Reference Number at each level to ensure uniqueness (as shown in Figure 2b). The digit '9' may be used in the Indicator Digit position, but it is reserved for Variable Measure Trade Items. 'C' is reserved for the automatically-calculated Check Digit and is the 14th digit of the GTIN.
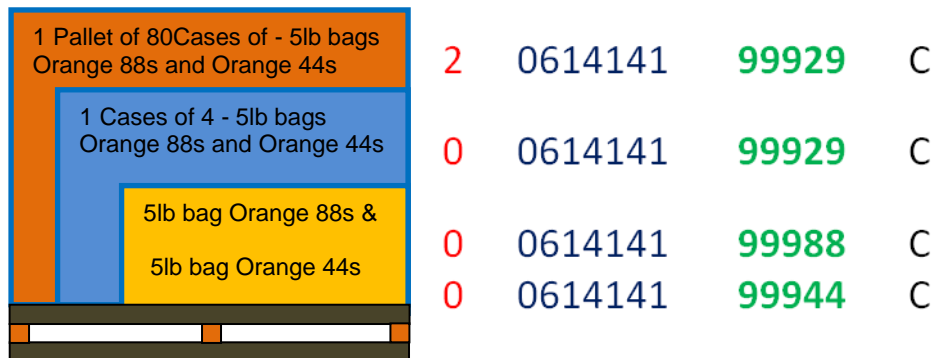
Figure 2b:

1 Pallet of 24 Cases of - 5lb bags Orange 88s	5	0614141	99988	C

| 1 Case of 4- 5lb bags Orange 88s | 2 | 0614141 | 99988 | C |

| 5lb bag Orange 88s | 0 | 0614141 | 99988 | C |

C. Combination of Indicator Digit and Item Reference for higher levels of packaging

It is acceptable to utilize the digit '0' in the Indicator Digit position at multiple different unit levels of the hierarchy, while providing a different Item Reference Number at those levels to ensure uniqueness (as shown in Figure 2c). The remaining hierarchy levels utilize the digits of '1' to '8' in the Indicator Digit position at the designated hierarchy levels, while maintaining a same Item Reference Number at each level to ensure uniqueness. 'C' is reserved for the automatically-calculated Check Digit and is the 14th digit of the GTIN.

Figure 2c:

1 Pallet of 80Cases of - 5lb bags Orange 88s and Orange 44s   2   0614141   99929   C

1 Cases of 4 - 5lb bags Orange 88s and Orange 44s   0   0614141   99929   C

5lb bag Orange 88s &   0   0614141   99988   C

5lb bag Orange 44s   0   0614141   99944   C

✅ *Remark (GS1 in Europe)*

Please note that systems always need to cater for 14 digit GTINs.