



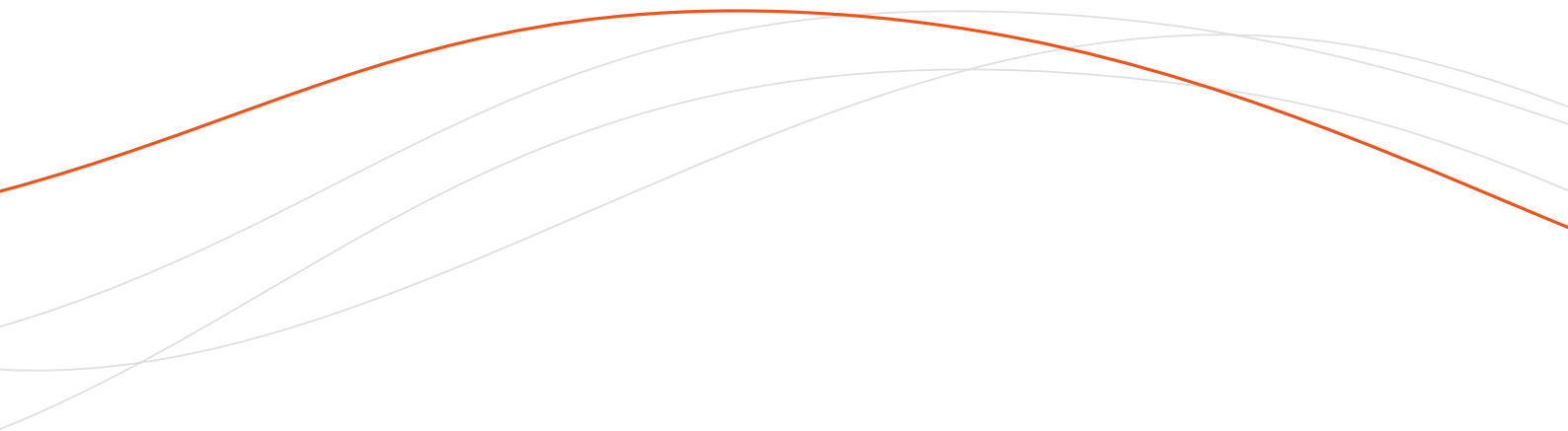
# It all depends on the right GTIN

Guideline for the allocation of article  
numbers for fresh fruits and vegetables

In cooperation with

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# Uniquely identified

**Efficient order and delivery processes, flexibility and traceability: the demands of the fruits and vegetables business have constantly increased over the last years. By means of a unique product identification – which can be achieved by using the GS1 standards – these demands can be fulfilled by large, medium and small sized companies. The enormous range of items and trading units requires a very detailed description of product specifications – It all depends on the right GTIN (Global Trade Item Number).**

It is usual business for the 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. But supply and demand can change quickly in the short term owed to climate and season. This makes it very important for fruit and vegetable retailers to be able to react rapidly and flexible to

have the right products in their stores. Most of the retailers automate their inventory management and logistic processes by using the globally applicable GS1 Standards. More and more retailers expect modern standards for product identification from their suppliers combined with automated electronic data processing. It is for them, as it is for other sectors, the only way to manage ordering,

goods receiving and labelling of their products easily and without problems. Nowadays, no industry sector can avoid exchanging detailed and transparent product information like: Country of origin, growing method, size, form and colour or packaging type.

Until now, uncertainty in the fruit & vegetable sector was great, concerning

## Example: Prepacked units, Differentiation

**False:** GTIN 4311501991008 for "Iceberg Lettuce"

**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“.



**Correct:**

- >> 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: Pre-packed units, Variety Packs/Mixes

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

the way to provide the right article number (GTIN). It is not always the same product from what it seems, asparagus is not asparagus and also tomatoes and oranges show a great diversity of species. Affected by this, the producer always has to find an answer to the question of how many different GTINs he will have to create to uniquely describe his product's varieties fitting into existing trade regulations. To provide companies a clear orientation, GS1 and experts

from the fruit and vegetable sector defined unique allocation rules. The present guide gives a short overview of the complete assortment of fruit and vegetable products and shows in which cases a separate GTIN allocation is necessary.

#### The GTIN – Basis for effective trade processes

The GTIN (Global Trade Identification Number, formerly EAN) 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. Furthermore it provides the basis for electronic data interchange (EDI) between suppliers and retailers. From product ordering by electronic systems to reliable identification in warehouses and availability on the shelves of the retail store – trading partners can optimize their bilateral

trading processes regardless of restrictions of sector or country.

### 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. Depending on the barcode symbology used, the GTIN is accompanied by e.g. batch or lot number on the trade or logistic unit (for example crate, carton or pallet). On the GS1 transport label the GTIN

identifies the trade unit/logistic unit. For this usage GS1 provides guidelines for labelling based on their standards. In electronic messages such as order, despatch advice and invoice the GTIN identifies consumer units as well as sales units/trade units.

### Who is responsible for GTIN allocation?

In order to ensure the use of the GTIN along the entire supply chain, the

GTIN should be allocated 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. One specific case are retailer brands: To become able to label the retailers own brand of a product, suppliers receive all needed information and item numbers from the retailer. It is also important to note that a trading

### Example: Pre-packed units, content information

**False:** GTIN 4311501991053 for "Trusses of cocktail tomatoes 300 g or 400 g"

#### 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 „Verpackungsverordnung“. The base price is different.

#### Correct:

- >> GTIN **4311502991069** for "Trusses of cocktail tomatoes Netherlands extra class 300g dish with cap"
- >> GTIN 4311502991076 for "Trusses of cocktail tomatoes Netherlands extra class 400 g dish with cap"



partner who allocates GTINs for consumer goods will be held responsible for the GTINs of the trading units of these products. More information regarding the composition and the allocation of GTINs can be found in the relevant websites of GS1 (see page 9, "Additional information").

#### When does a new GTIN need to be allocated?

Production 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, each size, sort and quality and, under special circumstances, post harvest treatment, lead to a new GTIN.

#### Example: Trade Units, Differentiation

**False:** GTIN 4311502991083 for "Tomatoes"

##### 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.

##### Correct:

- >> 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: Trade units, Variety Packs/Mixes

False: GTIN 4311502991120 for "Mix of herbs in pot including pots"	Correct:
<p><b>Why:</b></p> <ul style="list-style-type: none"> <li>&gt;&gt; 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.</li> <li>&gt;&gt; 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.</li> </ul>	<ul style="list-style-type: none"> <li>&gt;&gt; GTIN <b>4311502991137</b> for "Chives in pot Germany pot diameter 13 cm"</li> <li>&gt;&gt; GTIN <b>4311502991144</b> for "Parsley curly in pot Germany pot diameter 13 cm"</li> <li>&gt;&gt; GTIN <b>4311502991151</b> for "mixed herbs in pot Germany pot diameter 13 cm (6 pots chives, 6 pots parsley curly)"</li> </ul>



#### Basic Characteristics

- >> Commodity name (Botanic origin/descendant from)
- >> Growing method (organic, conventional)
- >> Country of origin (optional also: region of origin or national, regional or local name of product)
- >> Brand name, if existing
- >> Premium attributes/commercial claim (air-transport, ready-to-eat, citrus fruit with leave)

#### Product specific characteristics

- >> Size
- >> Commercial class (grade, e.g. class I, class II)
- >> Colour
- >> Shape
- >> Variety
- >> Commercial type
- >> Colour of flesh
- >> Post-harvest treatment (chemical treatment and waxing)
- >> Post-harvest processing (physical treatment, e.g. washed)
- >> Cooking type
- >> Seed characteristic

#### Packaging characteristics

- >> Content (quantity in packing unit or pre-pack unit)
- >> Packaging and RTI type (pledge crate as packing unit, dish as pre-pack)
- >> Composition of variety packs or mixed crates (e.g. mixed head lettuces in packing unit, bicolor in pre-packed units)

**Example: Trade Units, returnable empties**

**False:** GTIN 4311502991168 for “oranges Spain class I 10 kg”

**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.

**Correct:**

>> 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”

**Basis for long term success in your business**

Using the GTIN you lay the headstone for your success in business. As a supplier of fruits and vegetables you are able to fulfil legal requirements as well as commercial demands of retail. But the GTIN offers more opportunities: globally unique article numbers provide the key to modern electronic business processes. Single components of the GS1 System fit with each other like

tools in a tool box and can be combined according to your needs. Producers and suppliers are able to optimize their business processes step-by-step using this GS1 tool box.

One key word is “E-Business”: Costs can be saved through transmitting orders, dispatch advices and invoices electronically. Mistakes are avoided and communication to customers is accelerated. All partners in the supply

chain gain benefit, starting from an effective quality assurance via effective traceability of goods to comprehensive consumer information.

Regarding all question around GTIN allocation and implementation do not hesitate to contact us:

**GS1 in Europe**

**T +33 (1) 40 95 21 79**

**Email: [camille.dreyfuss@gs1eu.org](mailto:camille.dreyfuss@gs1eu.org)**



**Additional Information:**

**Information about structure and use of the GTIN**

[www.gs1.org/barcodes/technical/idkeys/gtin](http://www.gs1.org/barcodes/technical/idkeys/gtin)

**GS1 in Europe**

[www.gs1.eu](http://www.gs1.eu)

**GTIN Allocation Rules for Fresh Foods**

[www.gs1.org/1/gtinrules/index.php/tid=32](http://www.gs1.org/1/gtinrules/index.php/tid=32)

**GS1 Global Office (English)**

[www.gs1.org](http://www.gs1.org)

**UNECE Standards for Fresh Fruits and Vegetables (FFV)**

[www.unece.org/trade/agr/standard/fresh/FFV-StandardsE.html](http://www.unece.org/trade/agr/standard/fresh/FFV-StandardsE.html)

**UNECE Standards for Dry and Dried Produce (DDP)**

[www.unece.org/trade/agr/standard/dry/DDP-Standards.html](http://www.unece.org/trade/agr/standard/dry/DDP-Standards.html)

**Codex Alimentarius – International Food Standards**

[www.codexalimentarius.org](http://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>

The following table shows different fruits and vegetables in alphabetic order.  
The listed product characteristics enable you to verify when a unique GTIN has to be allocated.

**M** = different characteristics always lead to a new GTIN

**C** = different characteristics may lead to a new GTIN  
(e.g. depending on variety, class (grade) etc.)

**R** = It is recommended to allocate a new GTIN when characteristics differ.

Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Premium Attributes	Size	Class (grade)
Almonds	Prunus amygdalus fragilis	M	M	M	M	-	-
American Persimmon	Diospyros virginiana	M	M	M	M	-	-
Ananas d'Amérique	Cucumis melo	M	M	M	M	M	M
Apples	Malus domestica	M	M	M	M	M	M
Apricots	Prunus armeniaca	M	M	M	M	C	M
Asparagus	Asparagus officinalis	M	M	M	M	M	M
Aubergines	Solanum melongena	M	M	M	M	C	M
Babacos	Carica pentagona	M	M	M	M	-	-
Bananas	Musa	M	M	M	M	-	-
Bananas	Musa	M	M	M	M	-	M
Baskavas	Cucumis melo	M	M	M	M	M	M
Beans	Phaseolus vulgaris	M	M	M	M	C	M
Beetroot	Beta vulgaris	M	M	M	M	-	M
Bilberries	Vaccinium myrtillus L	M	M	M	M	-	M
Bird's Eye Chili or Thai Chili	Capsicum annum (Capsicum indicum)	M	M	M	M	-	-
Bitter Melon	Momordica charantia	M	M	M	M	-	-
Black Radish, Beer Radish, Daikon	Raphanus sativus L. var. niger	M	M	M	M	-	M
Black Salsify	Scorzonera	M	M	M	M	-	M
Blackberries	Rubus sect. Rubus	M	M	M	M	-	M
Branco	Cucumis melo	M	M	M	M	M	M
Broccoli	Brassica oleracea L. var. italica	M	M	M	M	C	M
Broccoli	Brassica oleracea L. var. italica x Bras	M	M	M	M	-	-
Brussels Sprouts	Brassica oleracea L. var. gemmifera	M	M	M	M	C	M
calabash	Lagenaria siceraria	M	M	M	M	-	-
Cantaloupe, Western Shipper	Cucumis melo	M	M	M	M	M	M
Cape Gooseberries	Physalis peruviana	M	M	M	M	-	-
Carambola	Averrhoa carambola	M	M	M	M	-	-
Carobs	Ceratonia siliqua	M	M	M	M	-	-
Carrots	Daucus carota	M	M	M	M	C	M
Cassia	Cassia fistula	M	M	M	M	-	-
Cauliflower	Brassica oleracea L. convar. botrytis	M	M	M	M	M	M
Celeriac	Apium graveolens var. rapaceum	M	M	M	M	-	M
Celery	Apium graveolens L. var. dulce Mill.	M	M	M	M	C	M
Cep or Penny Bun	Boletus edulis	M	M	M	M	-	M
Chanterelles	Cantharellus cibarius	M	M	M	M	C	M
Chard	Beta vulgaris var. flavescens	M	M	M	M	-	-
Chard	Beta vulgaris var. flavescens	M	M	M	M	-	M
Chayote, Pear Squash, Chouchoute	Sechium edule	M	M	M	M	-	-
Cherimoya	Annona cherimola	M	M	M	M	M	M
Chestnuts or Sweet Chestnuts	Castanea sativa	M	M	M	M	-	M
Chicorée, Witloof	Cichorium intybus var. Foliosum	M	M	M	M	-	-



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Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Premium Attributes	Size	Class (grade)
Chilli Peppers	Capsicum frutescens	M	M	M	M	-	-
Chinese Cabbages	Brassica pekinensis	M	M	M	M	-	M
Choy Sum, Flowering Chinese Cabbage	Brassica parachinensis	M	M	M	M	-	-
Clementines	Citrus clementina	M	M	M	M	M	M
Coconut	Cocos nucifera	M	M	M	M	-	-
Common Chicory	Cichorium intybus L. Sativum	M	M	M	M	-	M
Common Dandelion	Taraxacum officinale	M	M	M	M	-	-
Common Medlar	Mespilus germanica	M	M	M	M	-	-
Courgette, Zucchini Squash	Cucurbita pepo L.	M	M	M	M	C	M
Cranberries	Vaccinium macrocarpon	M	M	M	M	-	M
Cranberries	Vaccinium subgenus Oxycoccus	M	M	M	M	-	M
Curuba, Banana Passionfruit	Passiflora mollissima	M	M	M	M	-	-
Damsons	Prunus domestica L. ssp. domestica	M	M	M	M	C	M
Dates	Phoenix dactylifera	M	M	M	M	-	-
Durian	Durio zibethinus	M	M	M	M	-	-
Elderberries	Sambucus nigra	M	M	M	M	-	-
Elephant Garlic, Wild Leaf	Allium ampeloprasum	M	M	M	M	-	-
Endive (Curled)	Cichorium endivia L. var. crispum Lam	M	M	M	M	M	M
Escarole	Cichorium endivia L. var. latifolium Lam	M	M	M	M	M	M
Feijoas	Acca sellowiana	M	M	M	M	-	-
Fennel	Foeniculum vulgare	M	M	M	M	M	M
Figs	Ficus carica	M	M	M	M	M	M
Finger Avocados	Persea americana	M	M	M	M	M	M
Galia	Cucumis melo	M	M	M	M	M	M
Garlic	Allium sativum	M	M	M	M	M	M
Ginger	Zingiber officinale	M	M	M	M	-	-
Globe Artichokes	Cynara scolymus	M	M	M	M	C	M
Gooseberries	Ribes uva-crispa L.	M	M	M	M	-	M
Grapefruit	Citrus paradisi	M	M	M	M	M	M
Green Charentais	Cucumis melo	M	M	M	M	M	M
Green Eastern Shipper	Cucumis melo	M	M	M	M	M	M
Greengages	Prunus domestica L. ssp. Italica	M	M	M	M	C	M
Guavas	Psidium guajava	M	M	M	M	-	-
Hazelnuts	Corylus avellana, Corylus maxima	M	M	M	M	M	M
Head Lettuce	Lactuca sativa L. var. capitata L.	M	M	M	M	M	M
Honey Dew	Cucumis melo	M	M	M	M	M	M
Honeydew	Cucumis melo	M	M	M	M	M	M
Horned Melon	Cucumis metuliferus	M	M	M	M	-	-
Horseradish	Cochlearia armoracia L. syn. Armoracia l	M	M	M	M	-	M
Hot Peppers	Capsicum annum var. longum Solanaceae	M	M	M	M	-	-
Indian Date	Tamarindus indica	M	M	M	M	-	-



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Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Premium Attributes	Size	Class (grade)
Jackfruit	Artocarpus heterophyllus	M	M	M	M	-	-
Jalapeño	Capsicum annum	M	M	M	M	-	-
Japanese Greens	Brassica rapa var. japonica	M	M	M	M	-	-
Jerusalem Artichokes	Helianthus tuberosus	M	M	M	M	-	-
Kaki/Sharon Fruit	Diospyros kaki	M	M	M	M	-	-
Kale	Brassica oleracea convar. acephala var.	M	M	M	M	-	-
Kirkagac	Cucumis melo	M	M	M	M	M	M
Kiwifruits	Actinidia deliciosa, Actinidia chinensis	M	M	M	M	M	M
Kohlrabi	Brassica oleracea var. gongylodes L.	M	M	M	M	-	M
Kumquat	Fortunella	M	M	M	M	-	-
Lambs Lettuce	Valerianella locusta	M	M	M	M	-	-
Leaf Lettuce	Lactuca sativa L. var. crispa L.	M	M	M	M	M	M
Leaf Lettuce		M	M	M	M	-	-
Leek	Allium porrum	M	M	M	M	C	M
Lemon Grass	Cymbopogon citratus	M	M	M	M	-	-
Lemons	Citrus limon	M	M	M	M	M	M
Limequats	Citrus aurantifolia x Fortunella	M	M	M	M	-	-
Limes	Citrus aurantiifolia	M	M	M	M	M	M
Limes	Citrus latifolia	M	M	M	M	M	M
Lingonberries	Vaccinium vitis-idaea	M	M	M	M	-	M
Longan	Dimocarpus longan	M	M	M	M	-	-
Lychees	Litchi chinensis	M	M	M	M	-	-
Mangos	Mangifera indica	M	M	M	M	M	M
Manioc, Cassava	Manihot esculenta Crantz	M	M	M	M	-	-
May Turnips	Brassica rapa var. rapifera subvar. Maja	M	M	M	M	-	M
Mirabelle, Yellow Plum	Prunus domestica L. ssp. syriaca	M	M	M	M	C	M
Mung Bean	Vigna radiata	M	M	M	M	-	-
Mushrooms (except cultivated champignon mushrooms, ceps, chanterelles and truffles)	e. g. Pleurotus nebrodensis	M	M	M	M	-	-
Mustard Greens	Brassica juncea (L.) Czern.	M	M	M	M	-	-
Mustard Greens, Chinese Mustard	Brassica juncea	M	M	M	M	-	-
Nashi	Pyrus pyrifolia	M	M	M	M	-	-
Nectarines	Prunus persica var. nucipersica	M	M	M	M	C	M
Ogen	Cucumis melo	M	M	M	M	M	M
Okra	Abelmoschus esculentus	M	M	M	M	-	-
Onion	Allium cepa	M	M	M	M	M	M
Oranges	Citrus sinensis	M	M	M	M	M	M
Pak Choi	Brassica rapa ssp. Chinensis	M	M	M	M	-	-
Palestine lime or Sweet Indian lime	Citrus limettioides	M	M	M	M	M	M
Papayas	Carica papaya	M	M	M	M	M	M



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Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Premium Attributes	Size	Class (grade)
Parsnips	Pastinaca	M	M	M	M	-	M
Peaches	Prunus persica	M	M	M	M	C	M
Pears	Pyrus communis	M	M	M	M	M	M
Peas	Pisum sativum	M	M	M	M	-	M
Pepino	Solanum muricatum	M	M	M	M	-	-
Pickling Cucumbers	Cucumis sativus	M	M	M	M	-	-
Piel de Sapo	Cucumis melo	M	M	M	M	M	M
Pineapples	Ananas comosus	M	M	M	M	C	M
Pistachio	Pistacia vera	M	M	M	M	C	M
Plantain Bananas	Musa	M	M	M	M	-	-
Plumcots and Pluots	Prunus armeniaca x Prunus salicina	M	M	M	M	-	-
Plums	Prunus domestica L. ssp. domestica	M	M	M	M	C	M
Pomegranates	Punica granatum	M	M	M	M	-	-
Potatoes	Solanum tuberosum	M	M	M	M	C	-
Potted Herbs		M	M	M	M	M	-
Potted Lettuce		M	M	M	M	-	-
Prickly Pear, Barbary Fig	Opuntia ficus-indica	M	M	M	M	-	-
Pummelos	Citrus maxima	M	M	M	M	M	M
Pumpkins/Winter Squash	Cucurbita	M	M	M	M	-	-
Puntarelle or Cicoria di Catalogna	Cichorium intybus var. Foliosum	M	M	M	M	-	-
Purple Mangosteen	Garcinia mangostana	M	M	M	M	-	-
Purple Maracuja	Passiflora edulis edulis	M	M	M	M	-	-
Purple Salsify	Tragopogon porrifolius ssp. porrifolius	M	M	M	M	-	M
Purslane	Portulaca oleracea	M	M	M	M	-	-
Quinces	Cydonia oblonga	M	M	M	M	-	-
Raab or Rapini	Brassica rapa var. rapa var. cymosa	M	M	M	M	-	M
Radicchio	Cichorium intybus var. Foliosum	M	M	M	M	-	-
Rambutan	Nephelium lappaceum	M	M	M	M	-	-
Raspberries	Rubus idaeus	M	M	M	M	-	M
Red Currant, Black Currant	Ribes	M	M	M	M	-	M
Redfleshed Sweet Pitayas	Hylocereus polyrhizus	M	M	M	M	-	-
Rhubarb	Rheum rhaponticum L.	M	M	M	M	-	M
Rochet	Cucumis melo	M	M	M	M	M	M
Rocket	Eruca sativa	M	M	M	M	-	M
Romaine Lettuce	Lactuca sativa var. longifolia	M	M	M	M	M	M
Romanesco	Brassica oleracea L. convar. botrytis	M	M	M	M	M	M
Root Parsley	Petroselinum crispum subsp. tuberosum	M	M	M	M	-	M
Salak Fruit or Snake Fruit	Salacca zalacca	M	M	M	M	-	-
Satsuma Mandarins	Citrus unshiu	M	M	M	M	M	M
Scotch Bonnet, Habanero	Capsicum chinense	M	M	M	M	-	-
Shallots	Allium ascalonicum	M	M	M	M	M	M





**M** = different characteristics always lead to a new GTIN

**C** = different characteristics may lead to new GTIN  
(e. g. depending on variety, class (grade) etc.)

**R** = It is recommended to allocate a new GTIN when characteristics differ.

Commodity Name	Descendant from	Growing Method	Country of Origin	Brand Name	Premium Attributes	Size	Class (grade)
Siberian Kale	Brassica napus pabularia	M	M	M	M	-	-
Siberian Pear, Manchurian Pear, Ussurian Pear	Pyrus ussuriensis var. viridis	M	M	M	M	-	-
Slicing Cucumbers	Cucumis sativus	M	M	M	M	C	M
Small Radish, Radishes	Raphanus sativus var. sativus	M	M	M	M	-	M
Sorrel	Rumex acetosa	M	M	M	M	-	-
Soup Greens		M	M	M	M	-	-
Spinach	Spinacia oleracea	M	M	M	M	-	M
Strawberries	Fragaria	M	M	M	M	-	M
Sugarcane	Saccharum officinarum L.	M	M	M	M	-	-
Swedish Turnips, Rutabagas	Brassica napus var. napobrassica, Brassi	M	M	M	M	-	M
Sweet Cherries	Prunus avium L.	M	M	M	M	-	M
Sweet Corn	Zea mays var. saccharata	M	M	M	M	-	-
Sweet Granadilla	Passiflora ligularis	M	M	M	M	-	-
Sweet Peppers	Capsicum annum var. annum	M	M	M	M	C	M
Sweet Potatoe	Ipomoea batatas L.	M	M	M	M	-	-
Table Grapes	Vitis vinifera	M	M	M	M	-	M
Tamarillo	Cyphomandra betacea	M	M	M	M	-	-
Tangerines/ Other Mandarins	Citrus reticulata, Citrus deliciosa, Citrus tangerina	M	M	M	M	M	M
Tatsoi	Brassica rapa var. rosularis	M	M	M	M	-	-
Teltow Turnips	Brassica rapa var. rapifera subvar. Pygm	M	M	M	M	-	M
Tendral	Cucumis melo	M	M	M	M	M	M
Tomatillo	Physalis philadelphica	M	M	M	M	-	-
Tomatoes	Lycopersicum esculentum	M	M	M	M	C	M
Truffle	Tuber	M	M	M	M	-	M
Turnip greens	Brassica rapa var. Rapifera ssp. Pabular	M	M	M	M	-	M
Turnip Rooted Chervil	Chaerophyllum bulbosum	M	M	M	M	-	M
Turnips	Brassica rapa ssp. rapa	M	M	M	M	-	M
Turnips	Brassica rapa var. rapa subvar. Esculent	M	M	M	M	-	M
Walnuts	Juglans regia	M	M	M	M	M	M
Watercress	Nasturtium officinale	M	M	M	M	-	M
Watermelon	Citrullus lanatus	M	M	M	M	C	M
White Cabbages	Brassica oleracea var. capitata	M	M	M	M	-	M
White Mushroom, Cultivated Mushroom	Agaricus bisporus	M	M	M	M	C	M
Whitefleshed Sweet Pitayas	Hylocereus undatus	M	M	M	M	-	-
Witloof	Cichorium intybus L. var. foliosum Hegi	M	M	M	M	M	M
Yam	Dioscorea L	M	M	M	M	-	-
Yellow Charentais	Cucumis melo	M	M	M	M	M	M
Yellow Eastern Shipper	Cucumis melo	M	M	M	M	M	M
Yellow Maracujas	Passiflora edulis flavicarpa	M	M	M	M	-	-
Yellow Pitaya	Selenicereus megalanthus	M	M	M	M	-	-



# Contact with GS1 in Europe locally:

**GS1 Albania**  
+355 4 232073  
info@gs1al.org  
www.gs1al.org

**GS1 Armenia**  
+374 10 272 622  
gs1arm@am.org  
www.gs1am.org

**GS1 Austria**  
+43 1 505 86 01  
office@gs1austria.at  
www.gs1austria.at

**GS1 Azerbaijan**  
+99412 4987405  
ean@gs1az.org  
www.gs1az.org

**GS1 Belarus**  
+ 375 17 298 09 13  
ean@ean.by  
www.ean.by

**GS1 Belgium & Luxembourg**  
+32 2 229 18 80  
info@gs1belu.org  
www.gs1belu.org

**GS1 Bosnia-Herzegovina**  
+387 33 258 646  
info@gs1bih.com  
www.gs1bih.com

**GS1 Bulgaria**  
+359 2 988 3139  
gs1bulgaria@gs1bg.org  
www.gs1bg.org

**GS1 Croatia**  
+385 1 48 95 000  
info@gs1hr.org  
www.gs1hr.org

**GS1 Cyprus**  
+357 2 889800  
info@gs1cy.org  
www.gs1cy.org

**GS1 Czech Republic**  
+ 420 234 633145  
info@gs1cz.org  
www.gs1cz.org

**GS1 Denmark**  
+45 39 27 85 27  
info@gs1.dk  
www.gs1.dk

**GS1 Estonia**  
+372 660 5535  
info@gs1.ee  
www.gs1.ee

**GS1 Finland**  
+358 7 5756 3500  
asiakaspalvelu@gs1.fi  
www.gs1.fi

**GS1 France**  
+33 1 409 554 10  
infos@gs1fr.org  
www.gs1.fr

**GS1 Georgia**  
+995 32 29 4724  
info@gs1ge.org  
www.gs1ge.org

**GS1 Germany**  
+49 221 947 14 - 0  
info@gs1-germany.de  
www.gs1-germany.de

**GS1 Greece**  
+30 210 990 4260  
info@gs1greece.org  
www.gs1greece.org

**GS1 Hungary**  
+36 1 412 3954  
info@gs1hu.org  
www.gs1hu.org

**GS1 Iceland**  
+ 354 511 3011  
info@gs1.is  
www.gs1.is

**GS1 Ireland**  
+353 1 208 0660  
info@gs1ie.org  
www.gs1.ie

**GS1 Israel**  
+972 3 519 88 39  
info@gs1il.org  
www.gs1il.org

**GS1 Italy**  
+39 02 777 2121  
info@indicod-ecr.it  
www.indicod-ecr.it

**GS1 Kazakstan**  
+7 3272 756578  
+7 7272 479348  
info@gs1.kz  
www.gs1.kz

**GS1 Kyrgyzstan**  
+996 312 51 0826  
info@gs1kg.org  
www.gs1kg.org

**GS1 Latvia**  
+ 371 67830 822  
gs1@gs1lv.org • gs1@gs1.lv  
www.gs1lv.org • www.gs1.lv

**GS1 Lithuania**  
+370 5 2614532  
gs1@gs1lt.org  
www.gs1lt.org

**GS1 Macedonia**  
+389 2 32 54 250  
gs1mk@gs1mk.org.mk  
www.gs1mk.org.mk

**GS1 Moldova**  
+373 22 24 1669  
info@gs1md.org  
www.gs1md.org

**GS1 Netherlands**  
+31 20 511 3820  
info@gs1.nl  
www.gs1.nl

**GS1 Norway**  
+47 22 97 13 20  
firmapost@gs1.no  
www.gs1.no

**GS1 Poland**  
+48 61 8504977  
gs1pl@gs1pl.org  
www.gs1pl.org

**GS1 Portugal**  
+35 1 21 752 07 40  
info@gs1pt.org  
www.gs1pt.org

**GS1 Romania**  
+40 21 3178031  
office@gs1.ro  
www.gs1.ro

**GS1 Russia**  
+7 495 730 7103  
info@gs1ru.org  
www.gs1ru.org

**GS1 Serbia**  
+381 11 3132 312  
office@gs1yu.org  
www.gs1yu.org

**GS1 Slovakia**  
+421 41 565 11 85  
info@gs1sk.org  
www.gs1sk.org

**GS1 Slovenia**  
+386 1 5898320  
info@gs1si.org  
www.gs1si.org

**GS1 South Africa**  
+27 11 789 5777  
info@gs1za.org  
www.gs1za.org

**GS1 Spain**  
+34 93 252 39 00  
info@gs1es.org  
www.gs1es.org

**GS1 Sweden**  
+46 8 50 10 10 00  
info@gs1.se  
www.gs1.se

**GS1 Switzerland**  
+41(0)58 800 70 00  
mail@gs1.ch  
www.gs1.ch

**GS1 Turkey**  
+90 312 218 20 00  
gs1turkey@tobb.org.tr  
www.gs1tr.org

**GS1 UK**  
+44 20 7092 3500  
info@gs1uk.org  
www.gs1uk.org

**GS1 Ukraine**  
+380 44 486 0734  
ean@gs1ua.org  
www.gs1ua.org

**GS1 Uzbekistan**  
+998 71 252 6604  
info@gs1uz.org  
www.gs1uz.org

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GS1 in Europe

T +33 (1) 40 95 21 79  
E [camille.dreyfuss@gs1fr.org](mailto:camille.dreyfuss@gs1fr.org)

[www.gs1.eu](http://www.gs1.eu)