



GS1 Web Vocabulary Standard Specification

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1. Introduction

This document is a GS1 normative specification that defines the GS1 Vocabulary. The specification was developed within the GS1 Global Standards Management Process by a Mission Specific Working Group.

The initial focus of the GS1 Vocabulary is consumer facing properties for clothing, shoes, food beverage/tobacco and properties common to all trade items. Food/Beverage/Tobacco properties will include properties related to EU 1169 as defined in the GDSN and GS1 Source Standards. In addition, the vocabulary will include the definition of parties and of a trade item offering (a product offered by a party for a price).

Properties and their definitions come from existing GS1 standards including GDSN, GS1 Source and GPC. Exceptions to this rule include the definition of Offering and Thing which do not exist in any of the above standards.

The GS1 Vocabulary will be available in RDF Turtle and as a searchable HTML file. Examples expressed in this document will be created using JSON-LD.

This specification will be updated as new requirements are submitted for additional product categories.

2. Terms and definitions

Within this specification, the terms SHALL, SHALL NOT, SHOULD, SHOULD NOT, MAY, NEED NOT, CAN, and CANNOT are to be interpreted as specified in Annex G of the ISO/IEC Directives, Part 2, 2001, 4th edition [ISODir2]. When used in this way, these terms will always be shown in ALL CAPS; when these words appear in ordinary typeface they are intended to have their ordinary English meaning.

All sections of this document, with the exception of the introduction, are normative, except where explicitly noted as non-normative. ALL CAPS type is used for the special terms from [ISODir2] enumerated above.

3. References

Reference Name	Description
OWL Web Ontology Reference	http://www.w3.org/TR/owl-ref/
BRAD GTIN+ On the Web	The requirements document including requirements for the GS1 Web Vocabulary.

4. Namespaces

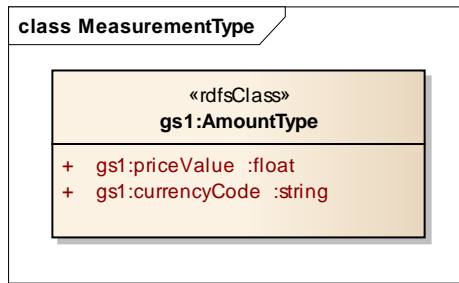
The namespace for the GS1 Vocabulary is <http://gs1.org/voc>. In addition, the GS1 vocabulary utilizes terms from other vocabularies. The full list of namespaces and prefixes used in the vocabulary are seen below.

Prefix	Namespace
rdf	http://www.w3.org/1999/02/22-rdf-syntax-ns#
rdfs	http://www.w3.org/2000/01/rdf-schema#
owl	http://www.w3.org/2002/07/owl#
xsd	http://www.w3.org/2001/XMLSchema#
dc	http://purl.org/dc/elements/1.1/
gr	http://purl.org/goodrelations/v1#
schema	http://schema.org/
vs	http://www.w3.org/2003/06/sw-vocab-status/ns#
gs1	http://gs1.org/voc/

5. Information Model

Per the BRAD, the vocabulary for the first phase should include consumer facing attributes related to Food Beverage Tobacco, Clothing and Footwear, Healthcare and the core item. The following is a list of GDSN attributes which meet these criteria.

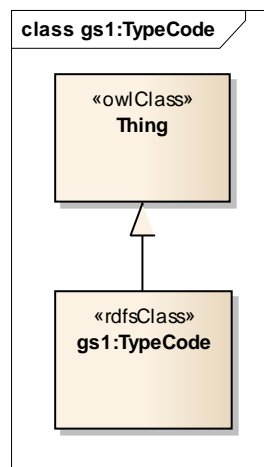
5.1. gs1:AmountType



RDF Class	subClassOf	Description
gs1:AmountType		An amount type is a value interpreted in combination with a respective currency code.

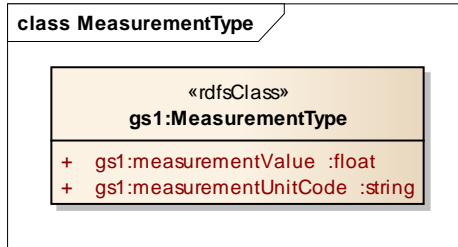
Domain	Property	Range	Definition	See Also
gs1:Amount Type	gs1:priceValue	float	A floating-point numeric value that is qualified by the corresponding currency.	http://schema.org/price
gs1:Amount Type	gs1:currencyCode	string	A string value indicating a currency from ISO 4217 for example USD. See gs1:currencyCode.	http://schema.org/unitCode

5.2. gs1:TypeCode



RDF Class	subClassOf	Description
gs1:TypeCode	owl:Thing	A class providing the ability to support specific code lists for example, a list of allergens, party roles, etc.

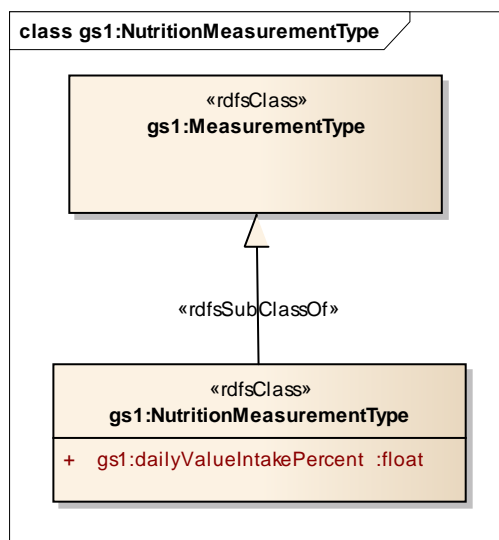
5.3. gs1:MeasurementType



RDF Class	subClassOf	Description
gs1:MeasurementType		A measurement type is a numerical interval that represents the range of a certain measurement property in terms of the lower and upper bounds. It is to be interpreted in combination with the respective unit of measurement. Most measurement types are intervals even if they are in practice often treated as a single point value.

Domain	Property	Range	Definition	See Also
gs1:MeasurementType	gs1:measurementValue	float	A floating-point numeric value that is qualified by the corresponding measurement unit code - see gs1:measurementUnitCode	http://schema.org/value
gs1:MeasurementType	gs1:measurementUnitCode	string	A string value indicating a Measurement Unit from UN/ECE Recommendation 20, Units of Measure used in International Trade e.g. GRM = gram - see http://www.unece.org/fileadmin/DAM/cefact/recommendations/rec20/rec20_rev3_Annex3e.pdf	http://schema.org/unitCode

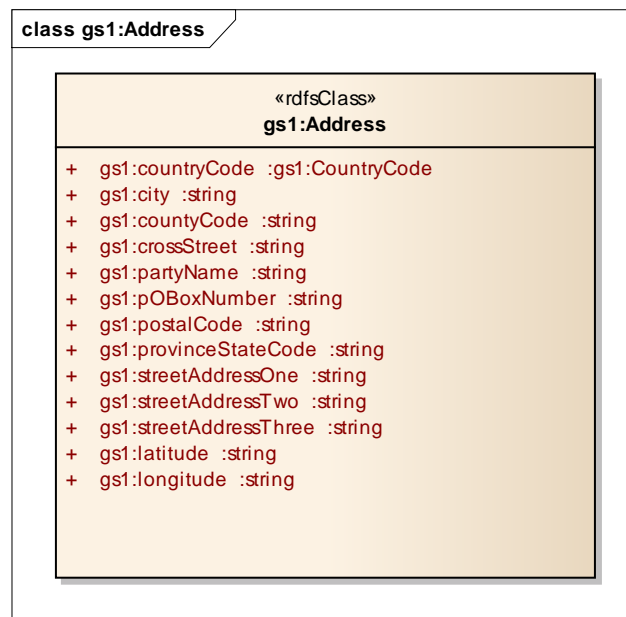
5.4. gs1:NutritionMeasurementType



RDF Class	subClassOf	Description
gs1:NutritionMeasurementType	gs1:MeasurementType	A measurement type extended by dailyValueIntakePercent. This enables the expression of the measurement of a nutrient as well as a corresponding dailyValueIntakePercent .

Domain	Property	Range	Definition	See Also
gs1:NutritionMeasurementType	gs1:dailyValueIntakePercent	float	The percentage of the recommended daily intake of a nutrient as recommended by authorities of the target market. Is expressed relative to the serving size and base daily value intake.	

5.5. gs1:Address



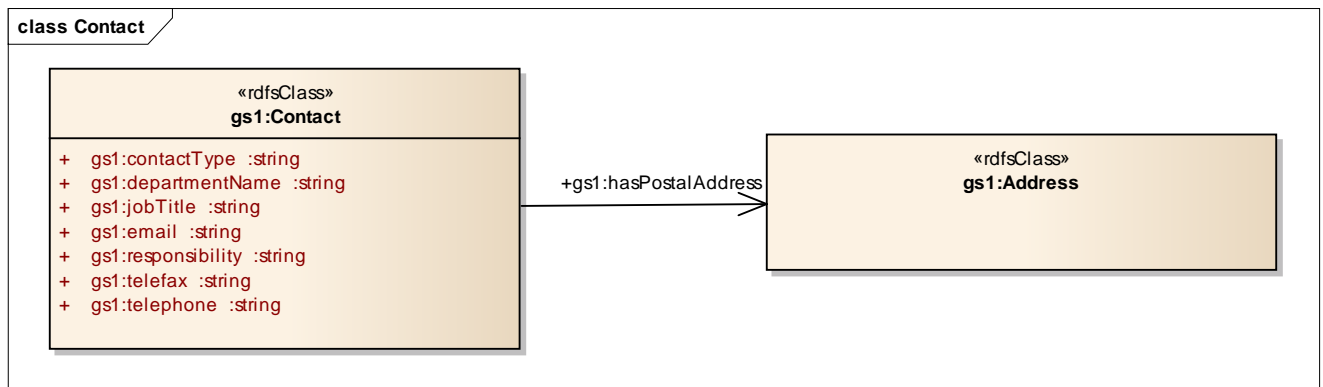
RDF Class	subClassOf	Description
gs1:Address		The location at which a particular organisation or person may be found or reached.

Domain	Property	Range	Definition	See Also
gs1:Address	gs1:city	string	Text specifying the name of the city.	http://schema.org/addressLocality http://www.w3.org/2006/vcard/ns#locality
gs1:Address	gs1:countryCode	gs1:CountryCode	Code specifying the country for the address.	http://schema.org/addressCountry

Domain	Property	Range	Definition	See Also
gs1:Address	gs1:countyCode	string	A code that identifies a county. A county is a territorial division in some countries, forming the chief unit of local administration. In the US, a county is a political and administrative division of a state.	
gs1:Address	gs1:crossStreet	string	A street intersecting a main street (usually at right angles) and continuing on both sides of it	
gs1:Address	gs1:partyName	string	The name of the party expressed in text.	http://www.w3.org/2006/vcard/ns#hasName
gs1:Address	gs1:pOBoxNumber	string	The number that identifies a PO box. A PO box is a box in a post office or other postal service location assigned to an organisation where postal items may be kept.	http://schema.org/postOfficeBoxNumber
gs1:Address	gs1:postalCode	string	Text specifying the postal code for an address.	http://schema.org/postalCode http://www.w3.org/2006/vcard/ns#postal-code
gs1:Address	gs1:provinceStateCode	string	Text specifying a province in abbreviated format.	http://schema.org/addressRegion http://www.w3.org/2006/vcard/ns#region
gs1:Address	gs1:streetAddressOne	string	The first free form line of an address. This first part is printed on paper as the first line below the name. For example, the name of the street and the number in the street or the name of a building.	http://schema.org/streetAddress http://www.w3.org/2006/vcard/ns#street-address
gs1:Address	gs1:streetAddressTwo	string	The second free form line of an address. This second part is printed on paper as the second line below the name. The second free form line complements the first free form line to locate the party e.g. floor number, name of a building, suite number or	
gs1:Address	gs1:streetAddressThree	string	The third free form line of an address. This third part is printed on paper as the third line below the name. The third free form line complements the first and second free form lines where necessary.	

Domain	Property	Range	Definition	See Also
gs1:Address	gs1:latitude	string	Angular distance North or South from the earth's equator measured through 90 degrees.	http://schema.org/latitude http://www.w3.org/2003/01/geo/wgs84_pos#lat
gs1:Address	gs1:longitude	string	The arc or portion of the earth's equator intersected between the meridian of a given place and the prime meridian and expressed either in degrees or in time.	http://schema.org/longitude http://www.w3.org/2003/01/geo/wgs84_pos#long

5.5.1. gs1:Contact

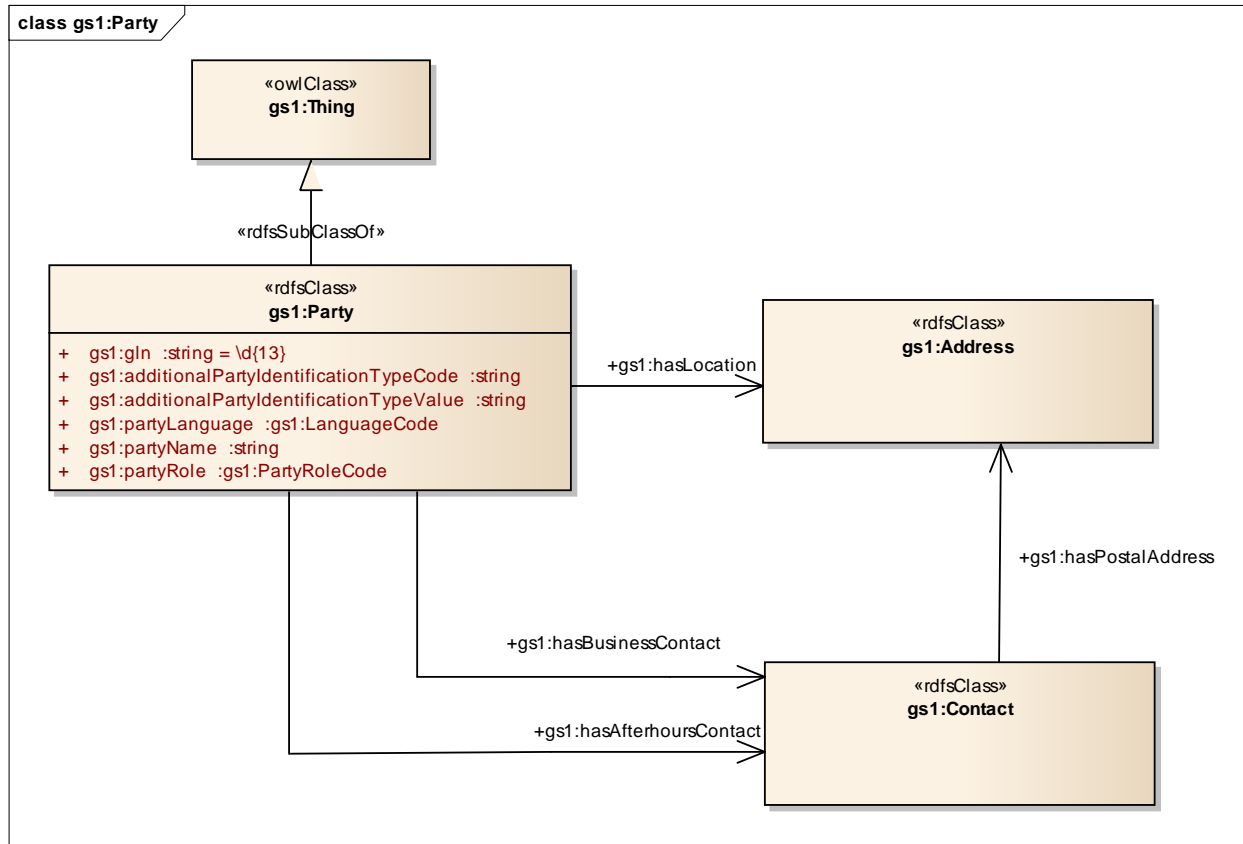


RDF Class	subClassOf	Description
gs1:Contact		Information on an individual or department acting as point of contact for an organisation.

Domain	Property	Range	Definition	See Also
gs1:Contact	gs1:contactType	gs1:ContactType	Code specifying the function or role of a contact for example manager.	
gs1:Contact	gs1:departmentName	string	The name of the department that can be contacted to provide additional information	http://schema.org/department
gs1:Contact	gs1:jobTitle	string	The job title of the person that can be contacted.	http://schema.org/jobTitle
gs1:Contact	gs1:email	string	Creating/sending/receiving of unstructured free text messages or documents using computer network, a mini-computer or an attached modem and regular telephone line or other electronic transmission media.	http://schema.org/email http://www.w3.org/2006/vcard/ns#hasEmail
gs1:Contact	gs1:responsibility	string	Text further specifying the area of responsibility of the trade contact.	

Domain	Property	Range	Definition	See Also
gs1:Contact	gs1:telefax	string	Device used for transmitting and reproducing fixed graphic material (as printing) by means of signals over telephone lines or other electronic transmission media.	http://schema.org/faxNumber
gs1:Contact	gs1:Telephone	string	Voice/data transmission by telephone.	http://schema.org/telephone http://www.w3.org/2006/vcard/ns#hasTelephone

5.6. gs1:Party

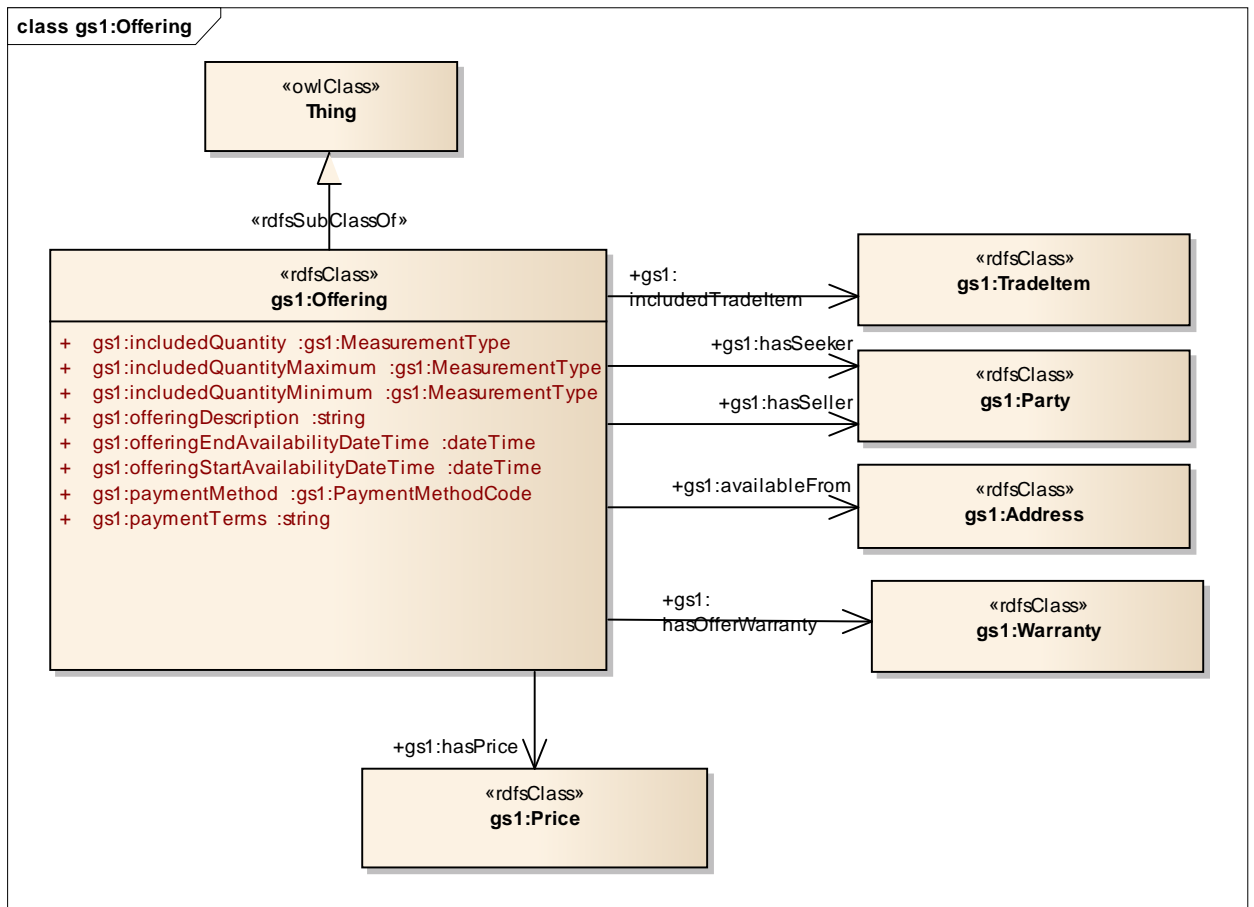


RDF Class	subClassOf	Description
gs1:Party		A Party (or) Location is any legal or physical entity involved at any point in any supply chain and upon which there is a need to retrieve predefined information. A Party is uniquely identified by a Global Location Number (GLN).

Domain	Name	Type	Notes	See Also
gs1:Party	gs1:gln	string	Global Location Number (GLN), the GS1 key used for the identification of parties and locations. The GLN MUST be exactly 13 numeric digits.	http://schema.org/globalLocationNumber
gs1:Party	gs1:additionalPartyIdentificationTypeValue	string	The value associated with the Additional Party Identification Type Value.	
gs1:Party	gs1:partyLanguage	gs1:LanguageCode	ISO 639-1 code specifying the language of an addressed party.	

Domain	Name	Type	Notes	See Also
gs1:Party	gs1:partyName	string	The name of the party expressed in text.	http://www.schema.org/additionalName http://www.w3.org/2006/vcard/ns#hasName
gs1:Party	gs1:partyRole	gs1:PartyRoleCode	Code specifying a party role.	
gs1:Party	gs1:hasLocation	gs1:Address	Links to information about an address for a party.	

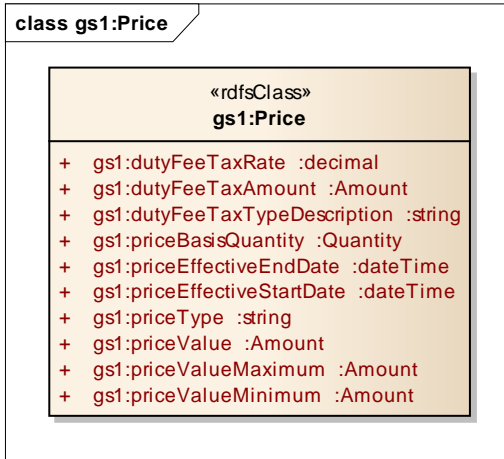
5.7. gs1:Offering



RDF Class	subClassOf	Description
gs1:Offering	owl:Thing	An offer to transfer some rights to an item (for example sell or donate) or to provide a service.

Domain	Name	Type	Notes	See Also
gs1:Offering	gs1:includedQuantity	gs1:Measurement Type	The quantity including unit of measure for which the offer for good or service is valid.	http://schema.org/eligibleQuantity
gs1:Offering	gs1:includedQuantityMaximum	gs1:Measurement Type	The maximum quantity including unit of measure for which the offer for good or service is valid.	
gs1:Offering	gs1:includedQuantityMinimum	gs1:Measurement Type	The minimum quantity including unit of measure for which the offer for good or service is valid.	
gs1:Offering	gs1:offeringDescription	string	A description of the offering including goods or services offered for sale or use.	
gs1:Offering	gs1:offeringEndAvailabilityDateTime	dateTime	The date from which the trade item is no longer available from the information provider, including seasonal or temporary trade item and services.	http://schema.org/availabilityEnds
gs1:Offering	gs1:offeringStartAvailabilityDateTime	dateTime	The date from which the trade item is no longer available from the information provider, including seasonal or temporary trade item and services.	http://schema.org/availabilityStarts
gs1:Offering	gs1:paymentMethod	gs1:Payment Method Code	A predefined list that identifies a means of payment. For example cheque, bankers draft, credit card, etc.	http://schema.org/acceptedPaymentMethod
gs1:Offering	gs1:paymentTerms	string	The type of payment term expressed as a code, for example Discount.	
gs1:Offering	gs1:hasOfferWarranty	Gs1:Warranty	The warranty associated with the offering.	
gs1:Offering	gs1:hasPrice	gs1:Price	The price related to an offering.	
gs1:Offering	gs1:hasSeeker	gs1:Price	The party seeking an offering.	
gs1:Offering	gs1:hasSeller	gs1:Price	The party seeking to sell a product or service.	http://schema.org/Seller
gs1:Offering	gs1:availableFrom	gs1:address	The location the offered product or service is available from.	

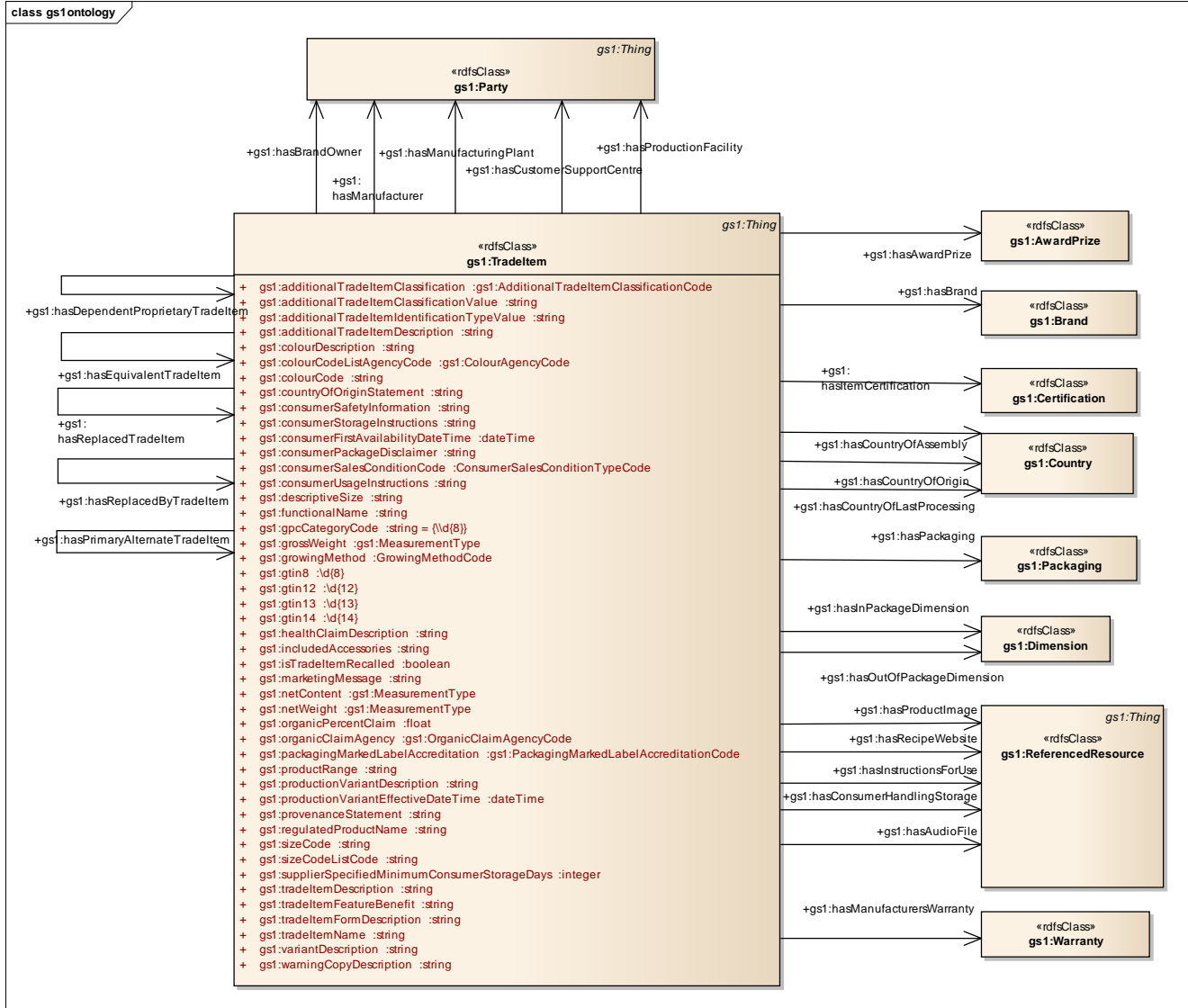
5.8. gs1:Price



Domain	Name	Type	Notes	See Also
gs1:price	gs1:dutyFeeTaxRate	float	The current tax or duty rate percentage applicable to the trade item.	
gs1:price	gs1:dutyFeeTaxAmount	gs1:amount	The current tax or duty or fee amount applicable to the trade item.	
gs1:price	gs1:dutyFeeTaxTypeDescription	string	A description of tax type for example "Taxes sure les supports audio.	
gs1:price	gs1:priceType	string	The type price for the item for example catalogue price.	
gs1:price	gs1:priceValue	gs1:Amount	Provides the trade item price value.	http://schema.org/price
gs1:price	gs1:priceValueMaximum	Amount	Provides a maximum price value.	http://schema.org/maxPrice
gs1:price	gs1:priceValueMinimum	Amount	Provides a minimum price value.	http://schema.org/minPrice
gs1:price	gs1:priceBasisQuantity	Quantity	The price basis quantity is the associated quantity of trade item for which a price is given.	http://schema.org/eligibleQuantity
gs1:price	gs1:priceEffectiveEndDate	dateTime	The effective end date of the price.	http://schema.org/validThrough
gs1:price	gs1:priceEffectiveStartDate	dateTime	This is the effective start date of the price.	http://schema.org/validFrom

5.9. Trade Item Information

5.9.1. gs1:TradelItem



Domain	Name	Type	Notes	See Also
gs1:Trad eltem	gs1:additionalTradelItemCla ssificationCode	gs1:Ad ditional Tradelt emClas sificatio nCode	Category code based on alternate classification schema chosen in addition to the Global Product Classification (GPC).	
gs1:Trad eltem	gs1:additionalTradelItemCla ssificationValue	string	Code specifying the applied additional trade item classification scheme.	
gs1:Trad eltem	gs1:tradelItemFeatureBenefi t	string	Element for consumer facing marketing content to describe the key features or benefits of the style suitable for display purposes.	

Domain	Name	Type	Notes	See Also
gs1:TradeItem	gs1:additionalTradeItemIdentificationTypeValue	string	This code will be used to cross-reference the Vendors internal trade item number to the GTIN in a one to one relationship.	http://schema.org/productID
gs1:TradeItem	gs1:additionalTradeItemDescription	string	Additional variants necessary to communicate to the industry to help define the product. Multiple variants can be established for each GTIN. This is a repeatable field, e.g. Style, Colour, and Fragrance.	
gs1:TradeItem	gs1:colourDescription	string	A description of a colour of an object.	
gs1:TradeItem	gs1:colourCodeListAgencyCode	gs1:ColourAgencyCode	A code depicting the colour of an object according to a specified code list.	
gs1:TradeItem	gs1:colourCodeValue	string	A code depicting the colour of an object according to a specific code list. The applied code list is specified as additional information together with the colour code.	
gs1:TradeItem	gs1:countryOfOriginStatement	string	A description of the geographic area the item may have originated from or has been processed.	
gs1:TradeItem	gs1:consumerSafetyInformation	string	Information on consumer safety regarding the trade item.	
gs1:TradeItem	gs1:consumerStorageInstructions	string	Expresses in text the consumer storage instructions of a product which are normally held on the label or accompanying the product. This information may or may not be labeled on the pack. Instructions may refer to a suggested storage temperature, a specific storage requirement.	
gs1:TradeItem	gs1:consumerFirstAvailabilityDateTime	dateTime	The first date/time that the buyer is allowed to sell the trade item to consumers. Usually related to a specific geography. ISO 8601 date format CCYY-MM-DDTHH:MM:SS.	
gs1:TradeItem	gs1:consumerPackageDisclaimer	string	Additional information that should be used in advertising and in displaying.	
gs1:TradeItem	gs1:consumerSalesCondition	ConsumerSalesConditionTypeCode	A code depicting restrictions imposed on the Trade Item regarding how it can be sold to the consumer for example Prescription Required.	
gs1:TradeItem	gs1:consumerUsageInstructions	string	Expresses in text the consumer usage instructions of a product which are normally held on the label or accompanying the product. This information may or may not be labeled on the pack. Instructions may refer to how the consumer is to use the product. This does not include storage, food preparations, and drug dosage and preparation instructions.	
gs1:TradeItem	gs1:descriptiveSize	string	A description of the size of an object.	

Domain	Name	Type	Notes	See Also
gs1:TradeItem	gs1:functionalName	string	Describes use of the product or service by the consumer. Should help clarify the product classification associated with the GTIN.	
gs1:TradeItem	gs1:gtin8	string	Code specifying a product category according to the GS1 Global Product Classification (GPC) standard.	
gs1:TradeItem	gs1:grossWeight	gs1:MeasurementType	Used to identify the gross weight of the trade item. The gross weight includes all packaging materials of the trade item. At pallet level the trade item Gross Weight includes the weight of the pallet itself. For example, "200 grm", value - total pounds, total grams, etc. Has to be associated with a valid UOM.	
gs1:TradeItem	gs1:gtin8	\d{8}	The 8-digit GS1 Identification Key composed of a GS1-8 Prefix, Item Reference, and Check Digit used to identify trade items. The GTIN8 MUST be exactly 8 numeric digits.	http://schema.org/gtin8
gs1:TradeItem	gs1:gtin12	\d{12}	The 12-digit GS1 Identification Key composed of a U.P.C. Company Prefix, Item Reference, and Check Digit used to identify trade items. The GTIN12 MUST be exactly 12 numeric digits.	
gs1:TradeItem	gs1:gtin13	\d{13}	Global Trade Item Number (GTIN), the GS1 key used for the identification of trade items. The GTIN13 MUST be exactly 13 numeric digits.	http://schema.org/gtin13
gs1:TradeItem	gs1:gtin14	\d{14}	Global Trade Item Number (GTIN), the GS1 key used for the identification of trade items. The GTIN14 MUST be exactly 14 numeric digits.	http://schema.org/gtin14
gs1:TradeItem	gs1:healthClaimDescription	string	A description of any health claims according to regulations of the target market.	
gs1:TradeItem	gs1:includedAccessories	string	Any included object or device not part of the core product itself but which adds to its functionality or use.	
gs1:TradeItem	gs1:isTradeItemRecalled	boolean	An indicator for the Trade Item to determine if the Manufacturer or Supplier has recalled the product.	
gs1:TradeItem	gs1:marketingMessage	string	Marketing message associated to the Trade item.	

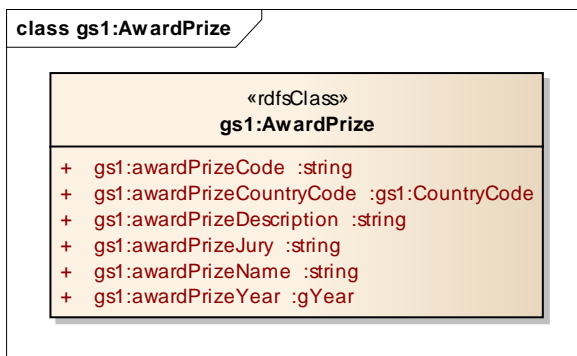
Domain	Name	Type	Notes	See Also
gs1:Trad eltem	gs1:netContent	gs1:Me asurem entTyp e	The amount of the trade item contained by a package, usually as claimed on the label. For example, Water 750ml - net content = "750 MLT" ; 20 count pack of diapers, net content = "20 ea.". In case of multi-pack, indicates the net content of the total trade item. For fixed value trade items use the value claimed on the package, to avoid variable fill rate issue that arises with some trade item which are sold by volume or weight, and whose actual content may vary slightly from batch to batch. In case of variable quantity trade items, indicates the average quantity.	
gs1:Trad eltem	gs1:netWeight	gs1:Me asurem entTyp e	Used to identify the net weight of the trade item. Net weight excludes any packaging materials and applies to all levels but consumer unit level.	
gs1:Trad eltem	gs1:organicClaimAgencyCo de	gs1:Org anicClai mAgen cyCode	A governing body that creates and maintains standards related to organic products.	
gs1:Trad eltem	gs1:organicPercentClaim	float	The percent of actual organic materials per weight of the trade item. This is usually claimed on the product	
gs1:Trad eltem	gs1:packagingMarkedLabel Accreditation	gs1:Pa ckaging Marked LabelA ccredita tionCod e	A marking that the product received recognition, endorsement, certification by following guidelines by the label issuing agency. This does not represent claims for regulatory purposes on products such as free from markings.	
gs1:Trad eltem	gs1:productRange	string	A name, used by a Brand Owner that spans multiple consumer categories or uses. E.g. (Waist Watchers).	
gs1:Trad eltem	gs1:productionVariantDescr iption	string	Free text assigned by the manufacturer to describe the production variant. Examples are: package series X, package series Y.	
gs1:Trad eltem	gs1:productionVariantEffecti veDateTime	dateTi me	The start date of a production variant. The variant applies to products having a date mark (a best before date or expiration date) on the package that comes on or after the effective date.	
gs1:Trad eltem	gs1:provenanceStatement	string	The place a trade item originates from. This is to be specifically used to enable things such as cities, mountain ranges, regions that do not comply with ISO standards. Examples: Made in Thüringen Mountains, Made in Paris, From the Napa Valley.	
gs1:Trad eltem	gs1:regulatedProductName	string	The prescribed, regulated or generic product name or denomination that describes the true nature of the product. For example for a food product in order to distinguish it from other foods according to country specific regulations.	

Domain	Name	Type	Notes	See Also
gs1:Trad eltem	gs1:sizeCode	string	Code specifying a size code list. Allowed code values are specified in GS1 Code List SizeCodeListCode.	
gs1:Trad eltem	gs1:sizeCodeListCode	string	Code specifying a size code list. Allowed code values are specified in GS1 Code List SizeCodeListCode.	
gs1:Trad eltem	gs1:supplierSpecifiedMinim umConsumerStorageDays	integer	Represents the number of days between a product's sell by date and its use by date.	
gs1:Trad eltem	gs1:tradeltemDescription	string	<p>An understandable and useable description of a trade item using brand and other descriptors.</p> <p>This attribute is filled with as little abbreviation as possible while keeping to a reasonable length.</p> <p>Free form text field, this data element is repeatable for each language used and must be associated with a valid ISO language code. Field length is 178 characters.</p> <p>This should be a meaningful description of the trade item with full spelling to facilitate message processing. Retailers can use this description as the base to fully understand the brand, flavour, scent etc. of the specific GTIN in order to accurately create a product description as needed for their internal systems.</p> <p>Examples: GS1 Brand Base Invisible Solid Deodorant AP Stick Spring Breeze</p> <p>GS1 Brand Laundry Detergent Liquid Compact Regular Instant Stain 1</p> <p>GS1 Brand Hair Colour Liquid Light to Medium Blonde</p>	http://schema.org/description
gs1:Trad eltem	gs1:tradeltemFormDescripti on	string	The physical form or shape of the product. Used, for example, in pharmaceutical industry to indicate the formulation of the trade item. Defines the form the trade item takes and is distinct from the form of the packaging.	
gs1:Trad eltem	gs1:tradeltemName	string	Consumer friendly short description of the product suitable for compact presentation.	
gs1:Trad eltem	gs1:variantDescription	string	Free text field used to identify the variant of the product. Variants are the distinguishing characteristics that differentiate products with the same brand and size including such things as the particular flavor, fragrance, taste.	

Domain	Name	Type	Notes	See Also
gs1:Trad eltem	gs1:warningCopyDescriptio n	string	Warning information is additional information that outlines special requirements, warning and caution information printed on the package.	
gs1:Trad eltem	gs1:hasAwardPrize	gs1:Aw ardPriz e	Information on any award or prize given to the trade item.	
gs1:Trad eltem	gs1:hasBrand	gs1:Bra nd	Details on the trade item brand.	
gs1:Trad eltem	gs1:hasItemCertification	gs1:Cer tifica tio n	Information on certification to which the trade item complies.	
gs1:Trad eltem	gs1:hasPackaging	gs1:Pa ckaging	Details on packaging for a trade item.	
gs1:Trad eltem	gs1:hasBrandOwner	gs1:Par ty	The brand owner of the trade item. The party that is responsible for allocating GS1 System Identification Keys. The administrator of a GS1 Company Prefix.	
gs1:Trad eltem	gs1:hasManufacturer	gs1:Par ty	The party that produces the item.	
gs1:Trad eltem	gs1:hasManufacturingPlant	gs1:Par ty	A physical location consisting of one or more buildings with facilities for manufacturing.	
gs1:Trad eltem	gs1:hasCustomerSupport	gs1:Par ty	The party which provides product support to the trading partner party to which merchandise is sold.	
gs1:Trad eltem	gs1:hasProductionFacility	gs1:Par ty	General description of the contact for the trade item for example Production Facility 3	
gs1:Trad eltem	gs1:hasDependentProprietaryTrad eltem	gs1:Tra deltem	Dependent trade items are Trade Items which are required to make the current trade item functional.	
gs1:Trad eltem	gs1:hasEquivalentTrad eltem	gs1:Tra deltem	A product which can be substituted for the trade item based on supplier-defined functional equivalence to the trade item.	http://schema.org/isSimilarTo
gs1:Trad eltem	gs1:hasReplacedTrad eltem	gs1:Tra deltem	Indicates the trade item identification of an item that is being permanently replaced by this trade item.	
gs1:Trad eltem	gs1:hasReplacedByTrad eltem	gs1:Tra deltem	The trade item which permanently replaces the current trade item. This Trade Item is sent in the record for the original item that is being replaced.	
gs1:Trad eltem	gs1:hasPrimaryAlternateTra deltem	gs1:Tra deltem	A Trade Item that is similar to the current Trade Item but is not exact match. Same form fit function, e.g. same product different colour, different package size, better quality.	
gs1:Trad eltem	gs1:hasProductImage	gs1:Ref erence dResou rce	Link to a file containing a visual representation of the product.	http://schema.org/image <a href="http://xmlns.com/foaf/0.1/depi
ction">http://xmlns.com/foaf/0.1/depi ction
gs1:Trad eltem	gs1:hasRecipeWebsite	gs1:Ref erence dResou rce	Link to a website containing recipes associated with the product.	

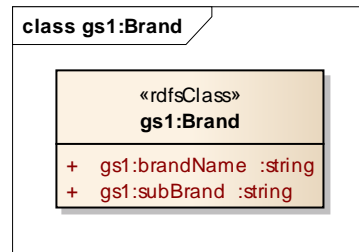
Domain	Name	Type	Notes	See Also
gs1:Trad eltem	gs1:hasInstructionsForUse	gs1:Ref erence dResou rce	Link to a file containing the Instructions For Use.	
gs1:Trad eltem	gs1:hasConsumerHandling Storage	gs1:Ref erence dResou rce	Link to a website, file, or image containing the manufacturer's recommendations for how the consumer or end user should store and handle the product.	
gs1:Trad eltem	gs1:hasAudioFile	gs1:Ref erence dResou rce	Link to a file containing an audio clip which is relevant to the product. Examples are commercials, or instructional/ how to use audio files.	
gs1:Trad eltem	gs1:hasTechnicalDataSheet	gs1:Ref erence dResou rce	Link to a file containing an audio clip which is relevant to the product. Examples are commercials, or instructional/ how to use audio files.	

5.9.2. gs1:AwardPrize



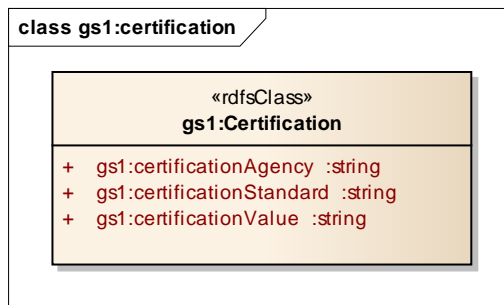
Domain	Name	Type	Notes	See Also
gs1:Awar dPrize	gs1:awardPrizeCode	string	Indicates the achievement of the product in relation to a prize or award, e.g. winner, runner-up, shortlisted. Optional and non-repeating.	
gs1:Awar dPrize	gs1:awardPrizeCountry Code	Country Code	An ISO standard code identifying the country in which a prize or award is given.	
gs1:Awar dPrize	gs1:awardPrizeDescript ion	string	A text that describes the awards a product won.	
gs1:Awar dPrize	gs1:awardPrizeJury	string	Free text listing members of the jury that awarded the prize.	
gs1:Awar dPrize	gs1:awardPrizeName	string	The name of a prize or award which the product has received.	
gs1:Awar dPrize	gs1:awardPrizeYear	gYear	The year in which a prize or award was given.	

5.9.3. gs1:Brand



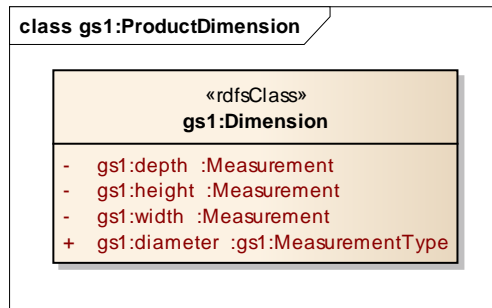
Domain	Name	Type	Notes	See Also
gs1:Brand	gs1:brandName	string	The recognizable name used by a brand owner to uniquely identify a line of trade item or services. This is recognizable by the consumer.	http://schema.org/brand
gs1:Brand	gs1:subBrand	string	Second level of brand. Can be a trademark. It is the primary differentiating factor that a brand owner wants to communicate to the consumer or buyer. E.g. Yummy-Cola Classic. In this example Yummy-Cola is the brand and Classic is the sub-brand.	

5.9.4. gs1:Certification



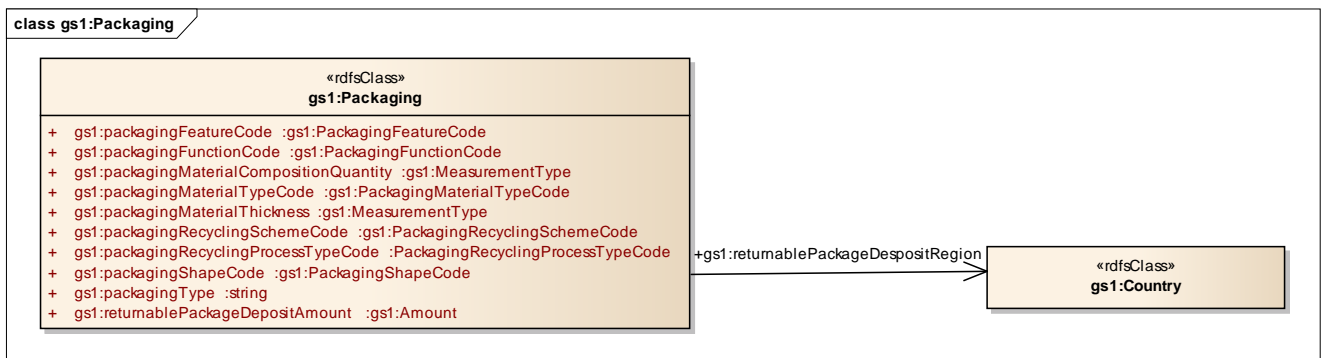
Domain	Name	Type	Notes	See Also
gs1:Certification	gs1:certificationAgency	string	Name of the organisation issuing the certification standard or other requirement being met.	
gs1:Certification	gs1:certificationStandard	string	Name of the certification standard. Free text. Example: Egg classification.	
gs1:Certification	gs1:certificationValue	string	The product's certification standard value. Example: 4	

5.9.5. gs1:Dimension



Domain	Name	Type	Notes	See Also
gs1:Dimension	gs1:depth	gs1:measurementType	The depth of both the unit load (content) and the platform upon which the goods are carried, if there is one. Depth is the measurement from front to back.	http://schema.org/depth
gs1:Dimension	gs1:height	gs1:measurementType	This is the height of both the unit load (content) and the platform upon which the goods are carried, if there is one. Height is the vertical dimension from the lowest extremity to the highest extremity.	http://schema.org/height
gs1:Dimension	gs1:width	gs1:measurementType	The width of the unit load, as measured according to the GS1 Package Measurement Rules.	http://schema.org/width
gs1:Dimension	gs1:diameter	gs1:measurementType	The measurement of the diameter of the trade item at its largest point. For example, 165 "mm", value - mm, diameter.	

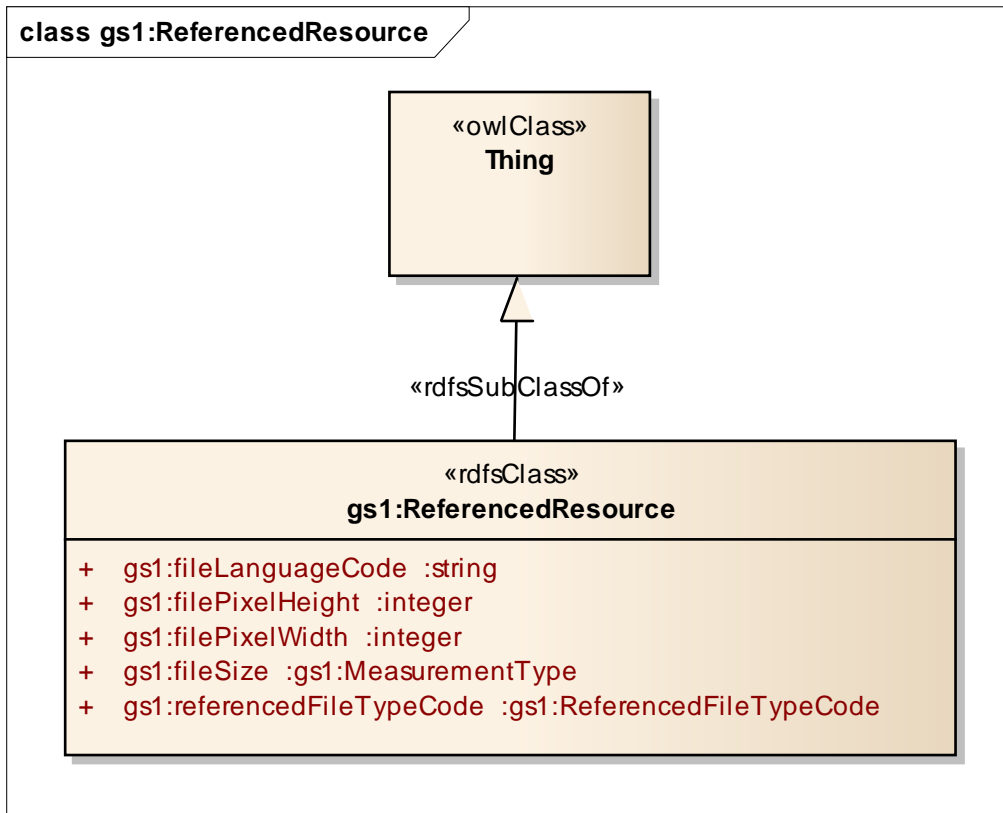
5.9.6. gs1:Packaging



Domain	Name	Type	Notes	See Also
gs1:Packaging	gs1:packagingFeatureCode	gs1:packagingFeatureCode	A packaging feature that facilitates the usage of the product by the consumer. Features do not affect the core composition of the packaging type nor modify its usage.	

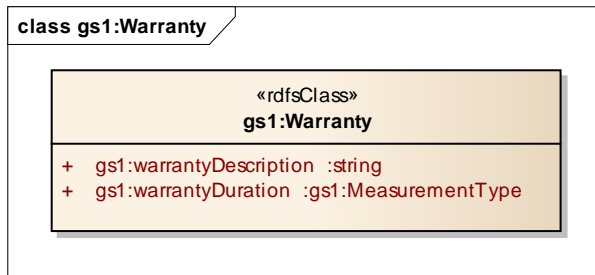
Domain	Name	Type	Notes	See Also
gs1:Packaging	gs1:packagingFunction	gs1:packagingFunctionCode	A code that is used to identify specific functionality for packaging resulting from specific processes or features present in the packaging type. These additional functionalities are not dependent on the packaging type and maybe applied to multiple different types.	
gs1:Packaging	gs1:packagingMaterialCompositionQuantity	gs1:MeasurementType	The quantity of the packaging material of the trade item. Can be weight, volume or surface, can vary by country.	
gs1:Packaging	gs1:packagingMaterialType	gs1:packagingMaterialTypeCode	The materials used for the packaging of the trade item for example glass or plastic.	
gs1:Packaging	gs1:packagingMaterialThickness	gs1:packagingMaterialTypeCode	The thickness of a packaging material.	
gs1:Packaging	gs1:packagingRecyclingScheme	gs1:packagingRecyclingSchemeCode	A code determining the recycling scheme the packaging of this trade item will fall within when recycled. Applies to recyclable packaging with or without deposit.	
gs1:Packaging	gs1:packagingRecyclingProcessType	gs1:packagingRecyclingProcessTypeCode	The process the packaging could undertake for recyclable & sustainability programs. Examples COMPOSTABLE, ENERGY_RECOVERABLE, REUSABLE	
gs1:Packaging	gs1:packagingShape	gs1:packagingShapeCode	A code depicting the shape of a package for example cone.	
gs1:Packaging	gs1:packagingType	string	The dominant means used to transport, store, handle or display the trade item as defined by the data source. This packaging is not used to describe any manufacturing process.	
gs1:Packaging	gs1:returnablePackageDepositAmount	gs1:Amount	The monetary amount for the individual returnable package.	
gs1:Packaging	gs1:returnablePackageDepositRegion	gs1:country	The geographic region associated with the returnable package deposit amount.	

5.9.7. gs1:Referenced File



Domain	Name	Type	Notes	See Also
gs1:ReferencedFile	gs1:fileLanguageCode	string	The specified language to which the digital asset is targeted.	
gs1:ReferencedFile	gs1:filePixelHeight	integer	The number of pixels along the vertical axis of the image.	
gs1:ReferencedFile	gs1:filePixelWidth	integer	The number of pixels along the horizontal axis of the image.	
gs1:ReferencedFile	gs1:fileSize	gs1:measurementType	The size of the file as it is stored in an uncompressed format.	
gs1:ReferencedFile	gs1:referencedFileTypeCode	gs1:ReferencedFileTypeCode	The type of file that is being referenced for example Safety Data Sheet or Product Image.	

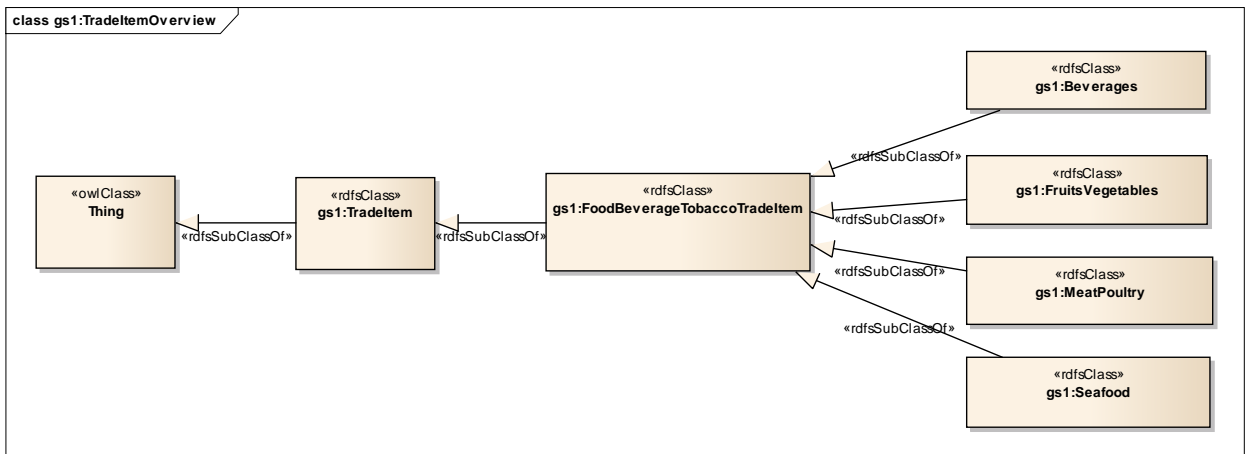
5.9.8. gs1:Warranty



Domain	Name	Type	Notes	See Also
gs1:Warranty	gs1:warrantyDescription	string	The description of warranty available for the trade item.	http://schema.org/warrantyScope
gs1:Warranty	gs1:warrantyDuration	gs1:MeasurementType	The time period that the warranty is valid within.	http://schema.org/durationOfWarranty

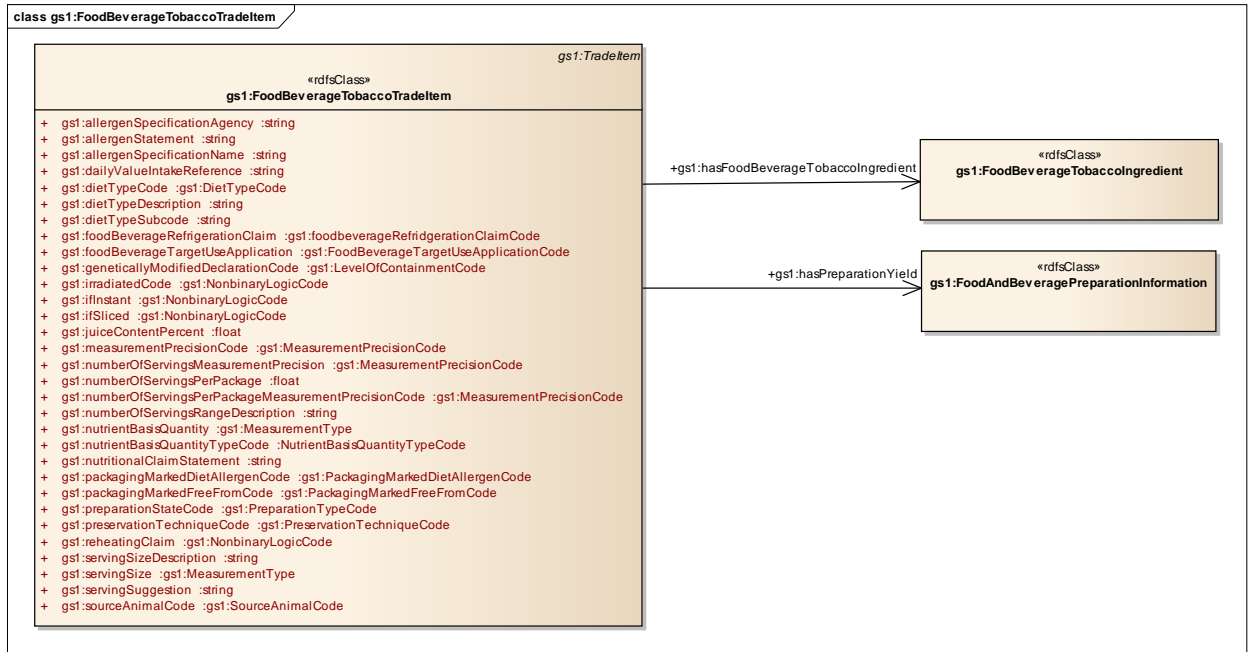
6. gs1: Food Beverage Tobacco Trade Item

6.1. Overview



Note: The associations in the above class diagram describe inheritance between classes. A subclass is derived from a parent class and all properties and associations in the parent class are inherited by the child. In W3C discussions on the relationship between RDF and UML, the RDFS “subClassOf” class inheritance structures map directly to UML class generalisation, RDF class properties map to UML class attributes.

6.2. Food Beverage Tobacco Trade Item Details



Note: Values in class `FoodBeverageTobaccoTradeItem` class are extended by [nutrients](#) listed in report below.

RDF Class	subClassOf	Description
gs1:FoodBeverageTobaccoTradeItem	gs1:TradeItem	Contains properties related to a broad characterisation of Food Beverage and Tobacco Products.

Domain	Name	Type	Notes	See Also
gs1:Food Beverage TobaccoTradeItem	gs1:allergenSpecificationAgency	string	Agency that controls the allergen definition.	
gs1:Food Beverage TobaccoTradeItem	gs1:allergenStatement	string	Textual description of the presence or absence of allergens as governed by local rules and regulations, specified as one string.	
gs1:Food Beverage TobaccoTradeItem	gs1:allergenSpecificationName	string	Free text field containing the name and version of the regulation or standard that contains the definition of the allergen.	
gs1:Food Beverage TobaccoTradeItem	gs1:dailyValueIntakeReference	string	Free text field specifying the daily value intake base for on which the daily value intake per nutrient has been based. Example: "Based on a 2000 calorie diet." Allows for the representation of the same value in different languages but not for multiple values.	

Domain	Name	Type	Notes	See Also
gs1:Food Beverage TobaccoT radelItem	gs1:dietTypeCode	gs1:DietT ypeCode	Code indicating the diet the product is suitable for.	
gs1:Food Beverage TobaccoT radelItem	gs1:dietTypeDescriptio n	string	Free text for indication of diet not stated in the list of diets.	
gs1:Food Beverage TobaccoT radelItem	gs1:dietTypeSubcode	string	Indicates a set of agreements or a certificate name that guarantees the product is permitted in a particular diet.	
gs1:Food Beverage TobaccoT radelItem	gs1:foodBeverageRefri gerationClaim	gs1:foodb everageR efridgerat ionClaim Code	How or if the food beverage or tobacco item should be refrigerated. (From GPC).	
gs1:Food Beverage TobaccoT radelItem	gs1:foodBeverageTarg etUseApplicationCode	gs1:Food Beverage TargetUs eApplicati on	The type of meal the food or beverage product is targeted to for example Breakfast.	
gs1:Food Beverage TobaccoT radelItem	gs1:geneticallyModified DeclarationCode	gs1:Level OfContai nmentCo de	A statement of the presence or absence of genetically modified protein or DNA in the trade item.	
gs1:Food Beverage TobaccoT radelItem	gs1:irradiatedCode	gs1:Nonb inaryLogi cCode	Indicates if radiation has been applied to a trade item's raw material.	
gs1:Food Beverage TobaccoT radelItem	gs1:ifInstant	gs1:Nonb inaryLogi cCode	Determines whether the product is instant.	
gs1:Food Beverage TobaccoT radelItem	gs1:ifSliced	gs1:Nonb inaryLogi cCode	Determines whether the product comes pre-sliced.	
gs1:Food Beverage TobaccoT radelItem	gs1:juiceContentPercen t	float	The fruit juice content of the trade item expressed as a percentage.	
gs1:Food Beverage TobaccoT radelItem	gs1:measurementPreci sion	gs1:meas urementP recisionC ode	Code indicating whether the specified nutrient content is exact or approximate.	
gs1:Food Beverage TobaccoT radelItem	gs1:numberOfServings MeasurementPrecision	gs1:Meas urementP recisionC ode	The total number of servings contained in the package.	
gs1:Food Beverage TobaccoT radelItem	gs1:numberOfServings PerPackage	float	The total number of servings contained in the package.	
gs1:Food Beverage TobaccoT radelItem	gs1:numberOfServings PerPackageMeasurem entPrecisionCode	gs1:Meas urementP recisionC ode	The total number of servings contained in the package.	

Domain	Name	Type	Notes	See Also
gs1:Food Beverage TobaccoTradeItem	gs1:numberOfServingsRangeDescription	string	A free text field specifying a range for the number of servings contained in the package.	
gs1:Food Beverage TobaccoTradeItem	gs1:nutrientBasisQuantity	gs1:MeasurementType	The basis amount that a nutrient is measured against when it is not serving size. For example, 120 gr in the case of 30 kj per 120 gr.	
gs1:Food Beverage TobaccoTradeItem	gs1:nutrientBasisQuantityType	gs1:nutrientBasisQuantityTypeCode	The type of quantity contained for example measurement, serving size, or container.	
gs1:Food Beverage TobaccoTradeItem	gs1:packagingMarkedDietAllergenCode	gs1:PackagingMarkedDietAllergenCode	Indication of which dietary or allergen marks that are on the package.	
gs1:Food Beverage TobaccoTradeItem	gs1:packagingMarkedFreeFromCode	gs1:PackagingMarkedFreeFromCode	Indication of the food ingredients that the package is marked free from.	
gs1:Food Beverage TobaccoTradeItem	gs1:preservationTechniqueCode	gs1:PreservationTechniqueCode	Code value indicating the preservation technique used to preserve the product from deterioration.	
gs1:Food Beverage TobaccoTradeItem	gs1:refrigerationCode	gs1:refrigerationCode	Identifies whether or not the product requires refrigeration.	
gs1:Food Beverage TobaccoTradeItem	gs1:reheatingClaim	gs1:NonbinaryLogicCode	The descriptive term that is used by the product manufacturer to identify whether a food product which is ready to eat can be reheated if required prior to consumption.	
gs1:Food Beverage TobaccoTradeItem	gs1:servingSizeDescription	string	A free text field specifying the serving size for which the nutrient information has been stated for example: per 1/3 cup (42 g). Allows for the representation of the same value in different languages but not for multiple values.	
gs1:Food Beverage TobaccoTradeItem	gs1:servingSize	gs1:MeasurementType	Measurement value specifying the serving size in which the information per nutrient has been stated. Example: Per 100 grams.	
gs1:Food Beverage TobaccoTradeItem	gs1:servingSuggestion	string	Free text field for serving suggestion.	
gs1:Food Beverage TobaccoTradeItem	gs1:sourceAnimalCode	gs1:SourceAnimalCode	The source of raw material used to produce the food product for example a goat for milk.	
Nutrients: (Part of gs1:FoodBeverageTobaccoTradeItem)				
gs1:Food Beverage TobaccoTradeItem	gs1:biotinPerNutrientBasis	Nutrition MeasurementType	Biotin Acid per specified nutrient basis quantity.	

Domain	Name	Type	Notes	See Also
gs1:Food Beverage TobaccoT radelItem	gs1:calciumPerNutrient Basis	Nutrition Measure mentTyp e	Calcium per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:carbohydratesPerN utrientBasis	Nutrition Measure mentTyp e	Carbohydrates per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:chloridePerNutrient Basis	Nutrition Measure mentTyp e	Chloride per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:chromiumPerNutrie ntBasis	Nutrition Measure mentTyp e	Chromium per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:copperPerNutrientB asis	Nutrition Measure mentTyp e	Copper per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:energyPerNutrientB asis	Nutrition Measure mentTyp e	Energy Per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:fatPerNutrientBasis	Nutrition Measure mentTyp e	Fat per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:fibrePerNutrientBas is	Nutrition Measure mentTyp e	Fibre per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:fluoridePerNutrient Basis	Nutrition Measure mentTyp e	Fluoride per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:folicAcidPerNutrient Basis	Nutrition Measure mentTyp e	Folic Acid per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:iodinePerNutrientB asis	Nutrition Measure mentTyp e	Iodine per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:ironPerNutrientBasi s	Nutrition Measure mentTyp e	Iron per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:manganesePerNutra ientBasis	Nutrition Measure mentTyp e	Manganese per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:magnesiumPerNutra ientBasis	Nutrition Measure mentTyp e	Magnesium per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:molybdenumPerNu trientBasis	Nutrition Measure mentTyp e	Molybdenum per specified nutrient basis quantity.	

Domain	Name	Type	Notes	See Also
gs1:Food Beverage TobaccoT radelItem	gs1:monounsaturatedFatPerNutrientBasis	Nutrition MeasurementType	Monounsaturated fat per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:monosaturatedFatPerNutrientBasis	Nutrition MeasurementType	Polyunsaturated fat per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:niacinPerNutrientBasis	Nutrition MeasurementType	Niacin per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:pantothenicAcidPerNutrientBasis	Nutrition MeasurementType	Pantothenic Acid per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:phosphorusPerNutrientBasis	Nutrition MeasurementType	Phosphorus per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:polyolsPerNutrientBasis	Nutrition MeasurementType	Polyols per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:gs1:polyunsaturatedFat	Nutrition MeasurementType	PolyunsaturatedFat Per Nutrient Basis Quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:potassiumPerNutrientBasis	Nutrition MeasurementType	Potassium per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:proteinPerNutrientBasis	Nutrition MeasurementType	Protein per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:riboflavinPerNutrientBasis	Nutrition MeasurementType	Riboflavin per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:saltPerNutrientBasis	Nutrition MeasurementType	Salt per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:saturatedFatPerNutrientBasis	Nutrition MeasurementType	Saturated fat per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:seleniumPerNutrientBasis	Nutrition MeasurementType	Selenium per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:sodiumPerNutrientBasis	Nutrition MeasurementType	Sodium per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoT radelItem	gs1:starchPerNutrientBasis	Nutrition MeasurementType	Starch per specified nutrient basis quantity.	

Domain	Name	Type	Notes	See Also
gs1:Food Beverage TobaccoTradeItem	gs1:sugarsPerNutrientBasis	Nutrition MeasurementType	Sugars per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoTradeItem	gs1:thiaminPerNutrientBasis	Nutrition MeasurementType	Thiamin per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoTradeItem	gs1:vitaminAPerNutrientBasis	Nutrition MeasurementType	Vitamin A per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoTradeItem	gs1:vitaminB6PerNutrientBasis	Nutrition MeasurementType	Vitamin B6 per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoTradeItem	gs1:vitaminB12PerNutrientBasis	Nutrition MeasurementType	Vitamin B12 per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoTradeItem	gs1:vitaminCPerNutrientBasis	Nutrition MeasurementType	Vitamin C per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoTradeItem	gs1:vitaminDPerNutrientBasis	Nutrition MeasurementType	Vitamin D per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoTradeItem	gs1:vitaminEPerNutrientBasis	Nutrition MeasurementType	Vitamin E per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoTradeItem	gs1:vitaminKPerNutrientBasis	Nutrition MeasurementType	Vitamin K per specified nutrient basis quantity.	
gs1:Food Beverage TobaccoTradeItem	gs1:zincPerNutrientBasis	Nutrition MeasurementType	Zinc Per Nutrient Basis Quantity.	

Sample

```
{
  "@context": {
    "gs1": "http://vocab.gs1.org/v1#",
    "schema": "http://schema.org/",
    "xsd": "http://www.w3.org/2001/XMLSchema#"
  },
  "TradeItem": "schema:Product",
  "Offering": "schema:Offer",
  "offerDescription": { "@id": "schema:description", "@language": "en" },
  "tradeItemDescription": { "@id": "schema:description", "@language": "en" },
  "gtin13": { "@id": "schema:gtin13", "@type": "xsd:string" },
  "image": { "@id": "schema:image", "@type": "@id" },
  "price": { "@id": "schema:price", "@type": "xsd:float" },
  "currencyUnit": { "@id": "schema:priceCurrency", "@type": "xsd:string" },
  "hasPrice": { "@id": "schema:priceSpecification", "@type": "@id" },
  "includes": { "@id": "schema:itemOffered", "@type": "@id" },
}
```

```

"healthClaimDescription":{"@id":"gs1:healthClaimDescription","@language": "en"},
"allergenStatement":{"@id":"gs1:allergenStatement","@language": "en"},

"gs1:measurementUnitCode": { "@type": "xsd:string" },
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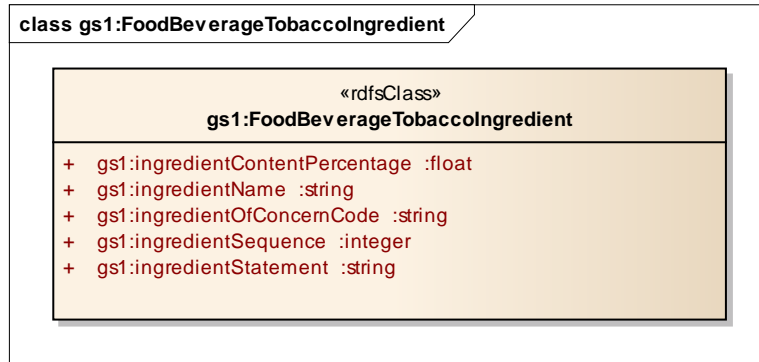
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6.2.1. gs1:Food and Beverage Ingredient



Domain	Name	Type	Notes	See Also
gs1:FoodBeverageTobaccoIngredient	gs1:ingredientContentPercentage	float	Indication of the percentage of the ingredient contained in the product.	
gs1:FoodBeverageTobaccoIngredient	gs1:ingredientName	string	Text field indicating one ingredient or ingredient group (according to regulations of the target market). Ingredients include any additives (colourings, preservatives, e-numbers, etc.) that are encompassed.	
gs1:FoodBeverageTobaccoIngredient	gs1:ingredientOfConcern	string	Indicates a claim to an ingredient, considered to be a concern for regulatory or other reasons, and which is "contained" within the trade item but may not need to specify the amount whether approximate, or an accurate measurement be given.	
gs1:FoodBeverageTobaccoIngredient	gs1:ingredientSequence	integer	Integer (1, 2, 3...) indicating the ingredient order by content percentage of the product. (major ingredient = 1, second ingredient = 2) etc.	
gs1:FoodBeverageTobaccoIngredient	gs1:ingredientStatement	string	Information on the constituent ingredient makeup of the product specified as one string.	

6.2.2. gs1:Food and Beverage Preparation Information

class gs1:FoodAndBeveragePreparationInformation	
<div> <div>«rdfsClass»</div> <div>gs1:FoodAndBeveragePreparationInformation</div> <div> + gs1:convenienceLevelPercent :float + gs1:manufacturerPreparationTypeCode :gs1:PreparationTypeCode + gs1:maximumOptimumConsumptionTemperature :gs1:MeasurementType + gs1:minimumOptimumConsumptionTemperature :gs1:MeasurementType + gs1:productYield :gs1:MeasurementType + gs1:productYieldType :gs1:ProductYieldTypeCode + gs1:preparationTypeCode :gs1:PreparationTypeCode + gs1:productYieldVariationPercentage :float + gs1:preparationInstructions :string + gs1:preparationConsumptionPrecautions :string </div> </div>	

Domain	Name	Type	Notes	See Also
gs1:FoodBeveragePreparationInformation	gs1:convenienceLevelPercent	float	An indication of the ease of preparation for semi-prepared products. The convenience level indicates the level of preparation in percentage required to prepare and helps the consumer to assess how long it will take to prepare the meal.	
gs1:FoodBeveragePreparationInformation	gs1:manufacturerPreparationTypeCode	gs1:PreparationTypeCode	An indication of the preparation methods that a manufacturer has used on a particular ingredient.	
gs1:FoodBeveragePreparationInformation	gs1:maximumOptimumConsumptionTemperature	gs1:MeasurementType	The upper limit drinking temperature of the optimum range of the drinking temperature. The optimum range of the drinking temperature is a recommendation and is based on the experience of the individual producer.	
gs1:FoodBeveragePreparationInformation	gs1:minimumOptimumConsumptionTemperature	gs1:MeasurementType	The lower limit drinking temperature of the optimum range of the drinking temperature. The optimum range of the drinking temperature is a recommendation and is based on the experience of the individual producer.	
gs1:FoodBeveragePreparationInformation	gs1:productYield	gs1:MeasurementType	Product quantity after preparation.	
gs1:FoodBeveragePreparationInformation	gs1:productYieldTypeCode	gs1:ProductYieldTypeCode	Code indicating the type of yield measurement. Examples: <ul style="list-style-type: none"> • After dilution • Drained weight • After cooking • Etc. 	
gs1:FoodBeveragePreparationInformation	gs1:preparationType	gs1:PreparationTypeCode	A code specifying the technique used to make the product ready for consumption. For example: baking, boiling.	

Domain	Name	Type	Notes	See Also
gs1:FoodBeveragePreparationInformation	gs1:productYieldVariationPercentage	float	Indication of range in percent of the given cooking / roasting loss. Percentage that the actual weight of the trade item differs upward or downward from the average or estimated product yield.	
gs1:FoodBeveragePreparationInformation	gs1:preparationInstructions	string	Textual instruction on how to prepare the product before serving.	
gs1:FoodBeveragePreparationInformation	gs1:preparationConsumptionPrecautions	string	Specifies additional precautions to be taken before preparation or consumption of the product.	

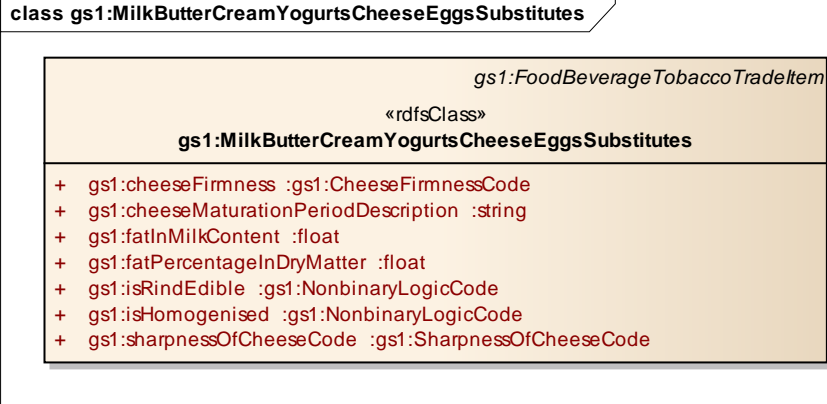
6.3. gs1: Beverages



RDF Class	subClassOf	Description
gs1:Beverages	gs1:FoodBeverageTobaccoTradeItem	Contains properties related specifically to beverage products such as juice, soda, beer, wine, etc.

Domain	Name	Type	Notes	See Also
gs1:Beverages	gs1:alcoholicBeverageSubregion	string	A legally defined geographical region where the grapes for a wine were grown also known as an appellation.	
gs1:Beverages	gs1:beverageVintage	string	The year in which the majority of ingredients are harvested and/or the alcoholic beverage is produced. Determination as to whether the vintage year is the harvest date or production date is according to requirements in the Target Market.	
gs1:Beverages	gs1:ifCarbonated	gs1:NonbinaryLogicCode	Used to identify whether or not a beverage product is naturally effervescent or has been made effervescent by the addition of carbon dioxide gas.	
gs1:Beverages	gs1:ifFromConcentrate	gs1:NonbinaryLogicCode	Used to identify whether or not the product claims to be made from a concentrated formulation.	
gs1:Beverages	gs1:ifDecaffeinated	gs1:NonbinaryLogicCode	The descriptive term that is used by the product manufacturer to identify whether or not the product contains caffeine.	
gs1:Beverages	gs1:ifVintage	gs1:NonbinaryLogicCode	Identifies whether the product makes claim to being 'vintage'.	
gs1:Beverages	gs1:percentageOfAlcoholByVolume	decimal	Percentage of alcohol contained in the base unit trade item.	
gs1:Beverages	gs1:vintner	string	The person hired by a winery or wine company who is responsible for many of the processes in the preparation, taste and quality of the wine produced. The science of wine making is referred to as oenology. The vintner is the oenologist.	

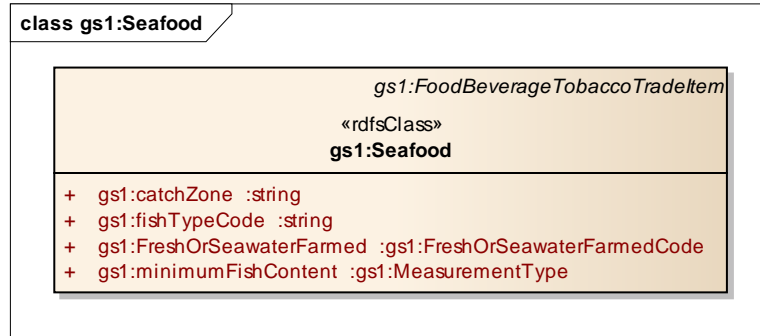
6.4. gs1:MilkButterCreamYogurtsCheeseEggsSubstitutes



RDF Class	subClassOf	Description
gs1:MilkButterCreamYogurtsCheeseEggsSubstitutes	gs1:FoodBeverageTobaccoTradeItem	Contains properties related specifically to milk butter cream yogurts cheese eggs and any substitutes for these products.

Domain	Name	Type	Notes	See Also
gs1:MilkButterCreamYogurtsCheeseEggsSubstitutes	gs1:cheeseFirmness	gs1:CheeseFirmnessCode	The firmness of the cheese product for example EXTRA_HARD.	
gs1:MilkButterCreamYogurtsCheeseEggsSubstitutes	gs1:cheeseMaturationPeriodDescription	string	A descriptive way to specify a date range as some cheeses are matured over a period of time, but not an exact period. For example 3 to 4 weeks, over 1 year etc. The term maturation is also known in other markets as Aged.	
gs1:MilkButterCreamYogurtsCheeseEggsSubstitutes	gs1:fatInMilkContent	float	The percentage of fat contained in milk content of the product.	
gs1:MilkButterCreamYogurtsCheeseEggsSubstitutes	gs1:fatPercentageInDryMatter	float	The amount of fat contained in the base product expressed in percentage	
gs1:MilkButterCreamYogurtsCheeseEggsSubstitutes	gs1:isHomogenised	gs1:NonbinaryLogicCode	The indication whether or not the milk used was actively homogenised. The homogenisation of milk is a technical process in the dairy. The milk fat is milled to such an extent that further creaming is prevented.	
gs1:MilkButterCreamYogurtsCheeseEggsSubstitutes	gs1:sharpnessOfCheeseCode	gs1:SharpnessOfCheeseCode	The descriptive term that is used by the product manufacturer to identify the sharpness of the taste of the product for example EXTRA_SHARP. Usually the longer the aging of the product, the sharper the taste.	

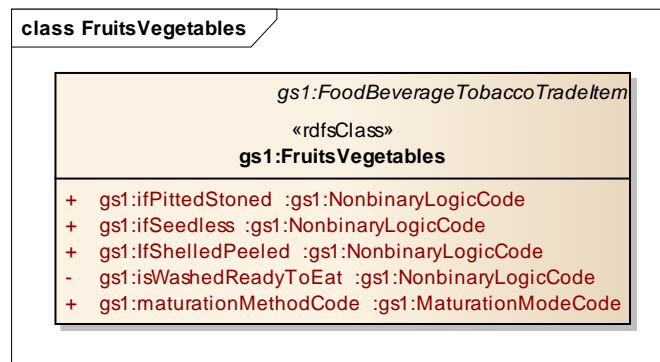
6.5. gs1:Seafood



RDF Class	subClassOf	Description
gs1:Seafood	gs1:FoodBeverageTobaccoTradeItem	Contains properties related specifically to seafood products.

Domain	Name	Type	Notes	See Also
gs1:Seafood	gs1:catchZone	string	The sea zone in which the seafood in the trade item was caught.	
gs1:Seafood	gs1:fishTypeCode	string	The type of fish for example Sea bass.	
gs1:Seafood	gs1:freshOrSeawaterFarmed	gs1:FreshOrSeawaterFarmedCode	A code determining whether the fish originated from the sea or was farmed.	
gs1:Seafood	gs1:minimumFishContent	gs1:MeasurementType	The minimum amount of fish, meat or poultry contained in a food and beverage trade item expressed as a measurement.	

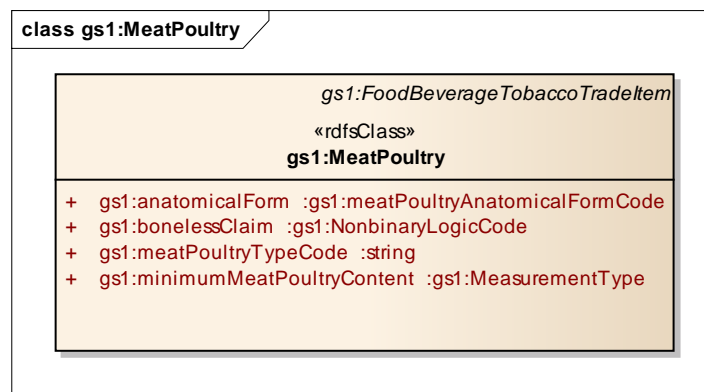
6.6. gs1:FruitsVegetables



RDF Class	subClassOf	Description
gs1:FruitsVegetables	gs1:FoodBeverageTobaccoTradeItem	Contains properties related specifically to fruit and vegetable products.

Domain	Name	Type	Notes	See Also
gs1:FruitsVegetables	gs1:ifPittedStoned	gs1:NonbinaryLogicCode	The descriptive term that is used by the product manufacturer to identify whether or not a fruit or vegetable product has been de-stoned or pitted prior to being offered for sale.	
gs1:FruitsVegetables	gs1:ifSeedless	gs1:NonbinaryLogicCode	Determines whether the product is seedless as grown.	
gs1:FruitsVegetables	gs1:ifShelledPeeled	gs1:NonbinaryLogicCode	The descriptive term that is used by the product manufacturer to identify whether or not the product or its contents have been shelled/peeled prior to being offered for sale.	
gs1:FruitsVegetables	gs1:isWashedReadyToEat	gs1:NonbinaryLogicCode	Determines whether product has been prewashed and is ready to eat.	
gs1:FoodBeverageTobaccoTradeItem	gs1:maturityMethodCode	gs1:MaturityModeCode	The method of maturity for the item for example tree ripened or jet fresh.	

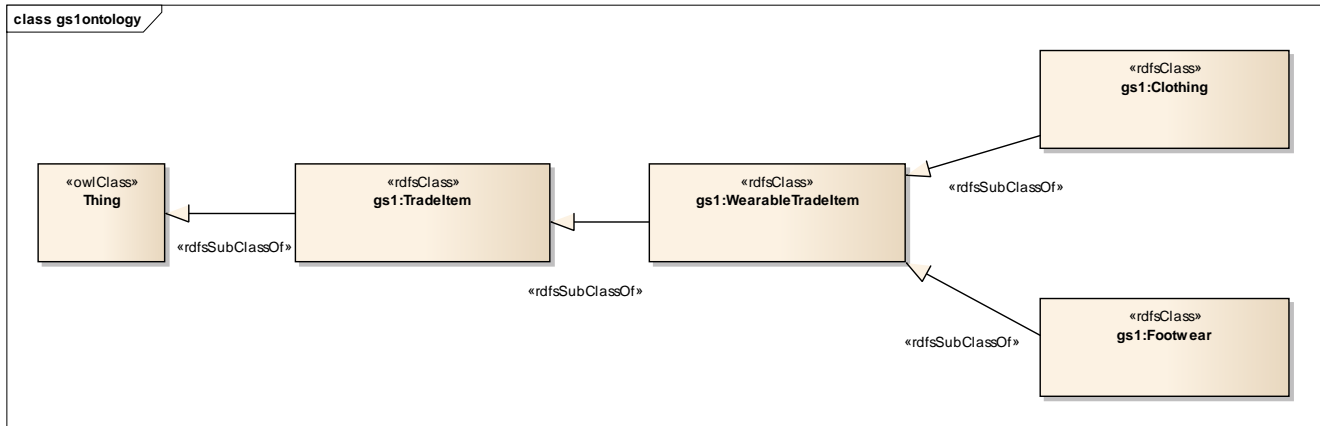
6.7. gs1:MeatPoultry



RDF Class	subClassOf	Description
gs1:MeatPoultry	gs1:FoodBeverageTobaccoTradeItem	Contains properties related specifically to meat and poultry products.

Domain	Name	Type	Notes	See Also
gs1:MeatPoultry	gs1:anatomicalForm	gs1:meatPoultryAnatomicalFormCode	Describes the meat product in terms of whether it is the whole animal or part of the animal which has been cut such as the muscle, bone, organ, or fat.	
gs1:MeatPoultry	gs1:bonelessClaim	gs1:NonbinaryLogicCode	The descriptive term that is used by the product manufacturer to identify whether the product makes a specific claim to contain no bones.	
gs1:MeatPoultry	gs1:meatPoultryTypeCodeReference	string	The fish, meat, or poultry type for this food and beverage item.	
gs1:MeatPoultry	gs1:minimumMeatPoultryContent	gs1:MeasurementType	The minimum amount of fish, meat or poultry contained in a food and beverage trade item expressed as a measurement.	

6.8. gs1:Wearable Trade Item



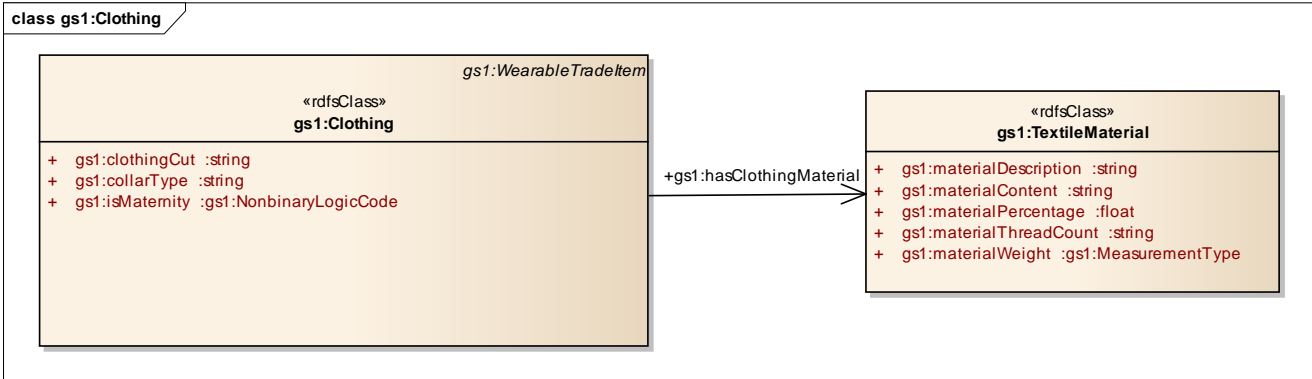
Note: The associations in the above class diagram describe inheritance between classes. A subclass is derived from a parent class and all properties and associations in the parent class are inherited by the child. In W3C discussions on the relationship between RDF and UML, the RDF-Schema subClassOf class inheritance structures map directly to UML class generalisation, RDF class properties map to UML class attributes.



RDF Class	subClassOf	Description
gs1:WearableTradeItem	gs1:TradeItem	Contains properties related to a broad characterisation of Food Beverage and Tobacco Products.

Domain	Name	Type	Notes	See Also
gs1:WearableTradeItem	gs1:consumerLifeStage	gs1:consumerLifeStage	Indicates, with reference to the product branding, labelling or packaging, the descriptive term that is used by the product manufacturer to identify the period or stage in the consumer's life during which the product is considered to be suitable.	
gs1:WearableTradeItem	gs1:descriptiveSizeDimension	string	The textual representation of the size dimension specified by the size type.	
gs1:WearableTradeItem	gs1:sPatterned	gs1:NonbinaryLogicCode	The descriptive term that is used by the product manufacturer to identify whether or not the product has a patterned design.	
gs1:WearableTradeItem	gs1:isThermal	gs1:NonbinaryLogicCode	The descriptive term that is used to identify whether the product is thermal.	
gs1:WearableTradeItem	gs1:isWaterProof	gs1:NonbinaryLogicCode	The descriptive term that is used to identify whether or not the product claims to provide waterproofing to the applied surface.	
gs1:WearableTradeItem	gs1:isWearableItemDisposable	gs1:NonbinaryLogicCode	Identifies whether or not the product is intended to be disposed of after single use or a limited period of use.	
gs1:WearableTradeItem	gs1:seasonCalendarYear	String	This element indicates the calendar year in which the trade item is seasonally available.	
gs1:WearableTradeItem	gs1:seasonName	Description	Element defines the season applicable to the item.	
gs1:WearableTradeItem	gs1:seasonParameter	SeasonParameterCode	Indication of the season, in which the trade item is available, i.e. assignment to one of the following collection periods: spring/summer, autumn/ winter or all year around.	
gs1:WearableTradeItem	gs1:sportingActivityType	gs1:sportingActivityType	The descriptive term that is used by the product manufacturer to identify the type of sporting activity for which the product is intended to be worn for example Football.	
gs1:WearableTradeItem	gs1:styleDescription	String	An attribute that classifies GTINs that share many of the same characteristics (attribute values) that does NOT vary by GTIN, and are presented by the supplier as a single merchandise selection for the buyer.	
gs1:WearableTradeItem	gs1:targetConsumerAge	Description	Identifies the target consumer age range for which a trade item has been designed.	
gs1:WearableTradeItem	gs1:targetConsumerGender	gs1:Gender	Identifies the target consumer gender for which a product has been designed.	

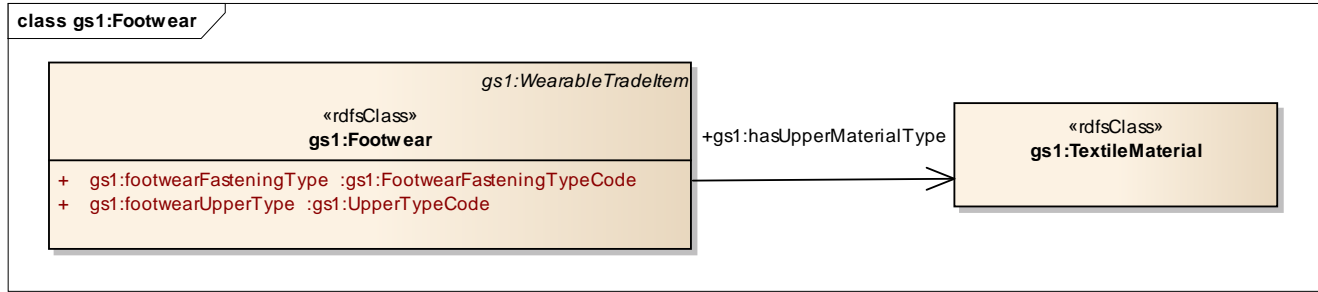
6.9. gs1:Clothing



RDF Class	subClassOf	Description
gs1:Clothing	gs1:WearableTradeItem	Contains properties related specifically to clothing.

Domain	Name	Type	Notes	See Also
gs1:Clothing	gs1:clothingCut	string	Supplemental information to indicate the clothing cut or silhouette make of the garment. For example, silhouette details for a pair of jeans such as boot cut, or loose fit, comfort fit.	
gs1:Clothing	gs1:collarType	string	A free text description of the type of collar on the garment.	
gs1:Clothing	gs1:isMaternity	gs1:NonbinaryLogicCode	Indicates, with reference to the product branding, labelling or packaging, the descriptive term that is used by the product manufacturer to identify if the product is intended as maternity wear.	
gs1:Clothing	gs1:hasClothingMaterial	TextileMaterial	Links to information about the material used in a wearable product.	
gs1:textileMaterial	gs1:materialDescription	string	This provides a description of the product material for example Rayon. Shall be repeatable for every material in the product.	
gs1:textileMaterial	gs1:materialContent	string	This element is used to indicate the material composition. This element is used in conjunction with the percentage.	
gs1:textileMaterial	gs1:materialPercentage	float	Net weight percentage of a product material of the first main material. The percentages must add up to 100.	
gs1:textileMaterial	gs1:materialThreadCount	string	This element is used to specify the quality of material (fabric) of a trade item.	
gs1:textileMaterial	gs1:materialWeight	gs1:MeasurementType	The measured weight of the material expressed in ounces per square yard or grams per square meter.	

6.10. gs1:Footwear



RDF Class	subClassOf	Description
gs1:Footwear	gs1:WearableTradeItem	Contains properties related specifically to footwear.

Property	Range	Definition	See Also
gs1:Footwear	gs1:footwearFasteningType	Something that mechanically joins or affixes two or more objects together	
gs1:Footwear	gs1:footwearUpperType	The descriptive term that is used by the product manufacturer to identify whether the footwear upper is open or closed. Otherwise known as Open or Closed Upper.	
gs1:Footwear	gs1:hasUpperMaterialType	The material used for the upper part of the footwear product. The upper is the part of a shoe, boot, slipper or other item of footwear that's above the sole.	

Example: WearableProduct (Shoes)

```

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    "gs1:styleDescription": { "@type": "xsd:string" },
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  "gs1:styleDescription": "Chopine",
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  "gs1:isWaterproof" : "gs1:TRUE",
  "gs1:isThermal" : "gs1:TRUE",
  "gs1:consumerLifestage" : "gs1:ADULT",
  "gs1:footwearFasteningType" : "gs1:STRAP",
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7. Code Lists

7.1. gs1:Anatomical Form

GS1 Code List	gs1:AnatomicalFormCode
GS1 Code List Version	R1
Managing Agency	GS1/GPC
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
BELLY	Belly
BLOOD	Blood
BONE	Bone
BRAIN	Brain
CARCASS_NONPOULTRY	Carcass of Non-poultry Animal.
DIAPHRAGM	Diaphragm
ESOPHAGUS	Esophagus
FAT	Fat
FEET	Feet
FOREQUARTER	Foreleg, Shoulder and Adjacent Lateral Parts of an Animal.
GIZZARD	Gizzard
HEAD	Head
HEADMEAT_CHEEKMEAT	Head meat or Cheek meat of Animal.
HEART	Heart
HINDQUARTER	The Posterior End of a Halved Carcass of Beef, Lamb, etc.
HORN	Horn
INTESTINE_LARGE	Large Intestine
INTESTINE_SMALL	Small Intestine
KIDNEY	Kidney
LIPS	Lips
LIVER	Liver
LUNGS	Lungs
MIXED_OFFAL	Parts of a Butchered Animal Considered Inedible by Humans
MIXED_PARTS_FOR_GROUNDING_MINCING	Mixed parts for grounding or mincing.
NECK	Neck
PANCREAS	Pancreas
SKIN	Skin

STOMACH	Stomach
TAIL	Tail
TENDONS	Tendons
TESTICLES	Testicles
THYMUS	Thymus
TONGUE	Tongue
TRIPE	Tripe
UNCLASSIFIED	Unclassified Part.
UNIDENTIFIED	Unidentified Part.
WHOLE BIRD	Whole Bird
WHOLE_MUSCLE _NONPOULTRY_MEATPART_PIECE	The Whole Muscle of a Non-poultry Animal.
WHOLE_MUSCLE_POULTRY_PART	The Whole Muscle of a Poultry Animal.
WHOLE_MUSCLE_PRIMAL	Whole Muscle Primal Cut
WHOLE_MUSCLE_RIBCUT	Whole Muscle Rib Cut
WHOLE_MUSCLE_ROASTCUT	Whole Muscle Roast Cut
WHOLE_MUSCLE_SLICE_CUTLETC UT	Whole Muscle Slice Cut
WHOLE_MUSCLE_STEAK_CHOPCU T	Whole Muscle Steak Chop Cut
WHOLE_MUSCLE_SUBPRIMAL	Whole Muscle Sub-primal

7.2. gs1:Cheese Firmness Code

GS1 Code List	gs1:CheeseFirmnessCode
GS1 Code List Version	R1
Managing Agency	GPC
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
EXTRA_HARD	Extra Hard
FIRM_SEMIHARD	Firm Semi-hard
HARD	Hard
SOFT	Soft
UNIDENTIFIED	Unidentified

7.3. gs1:Colour Code List Code

GS1 Code List	gs1:ColourCodeListCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
BUYER_ASSIGNED	Assigned by buyer. Same as GS1 ColourCodeList Code 6
IFPS	International Federation for Produce Standards
PANTONE_MATCHING	Pantone Matching System. Same as GS1 ColourCodeList Code 2
PANTONE_PROCESS_COLOUR	Pantone Process Colour System. Same as GS1 ColourCodeList Code 3
PANTONE_HEXACHROME	Pantone Hexachrome. Same as GS1 ColourCodeList Code 4
PANTONE_TEXTILE	Pantone Textile. Same as GS1 ColourCodeList Code 5"
NCS	Natural Colour System. Same as GS1 ColourCodeList Code 10
NRF	National Retail Federation. Same as GS1 ColourCodeList Code 1
RAL	Farbsystem RAL Colour System. Same as GS1 ColourCodeList Code 9
SELLER_ASSIGNED	Assigned by seller. Same as GS1 ColourCodeList Code 7
WWS	Waren Wirtschafts System. Same as GS1 ColourCodeList Code 8

7.4. gs1:Consumer Life Stage Code

GS1 Code List	gs1:ConsumerLifeStageCode
GS1 Code List Version	R1
Managing Agency	GS1/GPC
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
ADULT	Suitable for Adults
ALL_AGES	Suitable for All Ages
BABY_INFANT	Suitable for Babies/Infants
CHILD	Suitable for Children (all ages)
CHILD_1_To_2_YEARS	Suitable for Children One to Two Years Old
CHILD_2_YEARS_ONWARDS	Suitable for Children 2 Plus Years of Age
UNCLASSIFIED	Unclassified
UNIDENTIFIED	Unidentified

7.5. gs1:Consumer Sales Conditions Code

GS1 Code List	gs1:ConsumerSalesConditionsCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
BTC	Behind the Counter- products that are sold without a prescription but must be distributed through a pharmacy.
OTC	Over the Counter- products that may be sold without a prescription. These products are generally available without restrictions.
PRESCRIPTION_REQUIRED	Trade item may only be sold or dispensed under the direction of a prescription.
RESTRICTED_TO_SELL_16	Based upon legal regulatory restrictions it is illegal to sell the trade item to anyone under the age of 16 years old.
RESTRICTED_TO_SELL_18	Based upon legal regulatory restrictions it is illegal to sell the trade item to anyone under the age of 18 years old.
RESTRICTED_TO_SELL_21	Based upon legal regulatory restrictions it is illegal to sell the trade item to anyone under the age of 21 years old.

7.6. gs1:Diet Type Code

GS1 Code List	gs1:DietTypeCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
COELIAC	Denotes a product that can be safely consumed by a person with coeliac disease. Coeliac disease is caused by a reaction to gluten (a protein found in wheat) and similar proteins found in other crops.
DIETETIC	Denotes a product that is specially prepared or processed for people on restrictive diets.
FREE_FROM_GLUTEN	Denotes a product that can be used in a gluten free diet, as specified by the appropriate authority within a target market.
HALAL	Denotes selling or serving food ritually fit according to Islamic dietary laws.
KOSHER	Denotes selling or serving food ritually fit according to Jewish dietary laws.
ORGANIC	Denotes a food product that was produced with the use of feed or fertiliser of plant or animal origin, without employment of chemically formulated fertilisers, growth stimulants, antibiotics or pesticides.
VEGAN	Denotes a food product that was produced with the use of feed or fertiliser of plant or animal origin, without employment of chemically

	formulated fertilisers, growth stimulants, antibiotics or pesticides.
VEGETARIAN	Denotes a product that contains no meat, fish or other animal products.
WITHOUT_BEEF	Denotes a product that contains no beef or beef-products. Beef is considered to be a taboo food product by some religions most notable Hinduism, Buddhism and Jainism.
WITHOUT_PORK	Denotes a product that contains no pork meat.

7.7. gs1:Footwear Fastening Type Code

GS1 Code List	gs1:FootwearFasteningTypeCode
GS1 Code List Version	R1
Managing Agency	GS1/GPC
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
MULTIPLE_FASTENING	Multiple types of fastening
SHOE_LACE	Shoe laces
SLIP_ON_WITH_ELASTIC	Slip on shoes with elastic.
SLIP_ON_WITHOUT_ELASTIC	Slip on shoes without elastic
STRAP	Strap
UNCLASSIFIED	Unclassified
UNIDENTIFIED	Unidentified
VELCRO	Velcro

7.8. gs1:Food Beverage Refrigeration Claim Code

GS1 Code List	gs1:FoodBeverageRefrigerationClaimCode
GS1 Code List Version	R1
Managing Agency	GPC
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
CAN_BE_REFRIGERATED	Can Be Refrigerated.
MUST_BE_REFRIGERATED	Must Be Refrigerated
SHELF_STABLE	Shelf Stable
UNIDENTIFIED	Unidentified

7.9. gs1:Food Beverage Target Use Code

GS1 Code List	gs1:FoodBeverageTargetUseCode
GS1 Code List Version	R1
Managing Agency	GS1/GPC
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
ANY_MEAL	Any Meal
BREAKFAST	Breakfast
MAIN_MEAL	Main meal (Lunch or Dinner)
PORTABLE_MEAL	Portable Meal
SNACK	Snack
UNCLASSIFIED	Unclassified

7.10. gs1:Fresh Or Seawater Farmed Code

GS1 Code List	gs1:FreshOrSeawaterFarmedCode
GS1 Code List Version	R1
Managing Agency	GS1/GPC
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
FRESHWATER_FARMED	Freshwater Farmed
SEAWATER_FARMED	Seawater Farmed
UNCLASSIFIED	Unclassified
UNIDENTIFIED	Unidentified

7.11. gs1:Growing Method Code

GS1 Code List	gs1:GrowingMethodCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
CAGE_FREE	The item comes from a chicken able to move about inside a barn without being confined to cages.
CONVENTIONAL	Foods grown non-organically, either indoors or outdoors without any special processes.

FARM_RAISED	The item comes from an animal (bird, fish, or mammal), that is raised on a farm.
FREE_RANGE	The item comes from a chicken able access to an outdoor area.
FIELD_GROWN	Plants Grown Outdoors
FLY_FREE	Citrus Grown in an area certified to be free of all Caribbean Fruit Flies based on trappings
GRASS_FED	The item comes from an animal (bird, fish, or mammal), that is grass fed.
GREENHOUSE	Plants that are grown and cultivated in an indoor covered place.
HYDROPONIC	Plants grown using mineral nutrient solutions instead of soil.
INTEGRATED_PEST_MANAGEMENT	(IPM) Plants grown using a pest control strategy that uses an array of complimentary methods: mechanical devices, physical devices, genetic, biological, legal, cultural management and chemical management. These methods are done in three stages: prevention, observation, and intervention. It is an ecological approach with a main goal of significantly reducing or eliminating the use of pesticides.
ORGANIC	Foods grown organically, either indoors or outdoors
SHADE_GROWN	Plant grown under shade of a canopy of trees; typically used in the cultivation of coffee
WILD	The item from an animal (bird, fish, or mammal), caught in the wild not in captivity.

7.12. gs1:Level Of Containment Code

GS1 Code List	gs1:LevelOfContainmentCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
CONTAINS	Intentionally included in the product.
FREE_FROM	The product is free from the indicated substance.
MAY_CONTAIN	The substance is not intentionally included, but due to shared production facilities or other reasons, the product may contain the substance.

7.13. gs1:Maturation Method Code

GS1 Code List	gs1:MaturationMethodCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
PRECONDITIONED	Product stored at proper temperature prior to shipment to allow ripening and/or colouring, adequate for distribution and/or consumption. Pre-conditioned product is matured to a specific maturity level as a result of ripening through either temperature, gas treatment, humidity or any combination thereof.
TREE_VINE_RIPE	Product that is picked at optimum maturity or just shy of. It is almost 'ripe' or 'ready to eat'. This fruit will be shipped immediately (imported = flown) from the pack-house and stickered as Tree or Vine Ripe.
JET_FRESH	Freshly picked and immediately packed and shipped at mature stage and flown to destination for adequate distribution (i.e. imports from South America, Africa or Europe). Flown by jet to market; the carton will be labelled Jet Fresh, when applicable, stickered Jet Fresh. For the produce industry, most common with berries, stone fruits and pineapples

7.14. gs1:Measurement Precision Code

GS1 Code List	gs1:MeasurementPrecisionCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
APPROXIMATELY	The method used to analyse the products resulted in approximate value of the nutritional content.
EXACT	The method used to analyse the products resulted in exact value of the nutritional content.
LESS_THAN	To indicate presence when the measurement value is too small to be measured precisely (rule states less than 0.5).

7.15. gs1:Nutrient Basis Quantity Code

GS1 Code List	gs1:NutrientBasisQuantityTypeCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
BY_MEASURE	Nutrient measurement is based on a measurement value for example grams or ounces.
BY_SERVING	Nutrient measurement is based on a specified serving amount.

7.16. gs1:Organic Claim Agency Code

GS1 Code List	gs1:OrganicClaimAgencyCode	
GS1 Code List Version	R1	
Managing Agency	GS1	
Based on Code List	n/a	
Type Of Management	n/a	
GS1 Vocabulary Code	GS1 Code	Code Definition
EPA	1	EPA – US Environmental Protection Agency
FSA	2	FSA – UK Food Standards Agency
FDA	3	FDA – US Food and Drug Agency
IFOA	4	International Foundation for Organic Agriculture
BFA	5	BFA - Biological Farmers of Australia
USDA	6	USDA- US Department of Agriculture
QAI	7	Quality Assurance International www.qai-inc.com QAI is a leading USDA-accredited organic product certifying agency.
SUDTIROL_BIOLAND	8	Bioland Association of South Tyrol The Association of South Tyrol is the largest organic association for organic farmers having to farmers in South Tyrol and the only active in association with a national association office Terlan.
ECOLAND	9	Ecoland – Ecoland is a membership organisation whose members elect a governing Board which is responsible for the design and implementation of the organic certification system.
DEMETER_BUND	10	Demeter-Bund – The Demeter movement as an entrepreneurial network promotes the development of bio-dynamic economy, to secure the livelihoods of the world and to strengthen the positive people in his ministry. In cooperation contribute producers, processors, traders and consumers in partnership to shape the market.

GAA	11	GÄA – Gää is a diverse farming association for farmers, processors and traders inside. Focal point is Germany. Gää is a special design for the structure of the organic farming.
NATURLAND	12	Naturland – Naturland is active the world over in promoting organic agriculture. Its members are farmers who produce a wide range of valuable products: coffee from Mexico and Peru, olive oil from Greece, tea from the slopes of India's mountains, pineapple and other tropical fruit from Uganda, spices from Sri Lanka. Organic agriculture safeguards the existence of smallholders and helps with the sustainable management of what are often fragile ecosystems. On a global scale, over 50,000 Naturland farmers are cultivating an area of over 142,000 hectares.
BVOL	13	Bäuerliche Vereinigung ökologischer Landbau – an association of organic farmers' associations. They represent the interests of the German organic farmers and want to strengthen the position of organic farms in the shaping of national and international conditions. For the Peasant Federation of Organic Agriculture includes the following national remit Organic Agriculture Movements: Biokreis eV, Biopark eV, composite Ökohöfe eV http://www.bvoel.de/
ECOVIN	14	ECOVIN – ECOVIN Federation Organic Viticulture Association: ECOVIN largest merger in 1985 as ecologically-working wine estates in Germany was founded. Approximately 220 member companies currently manage 1,600 hectares of vineyards in 11 German wine-growing areas.
IFOAM	15	IFOAM – The International Federation of Organic Agriculture Movements (IFOAM) is a grassroots and democratic organisation that currently unites 750 member organisations in 116 countries.
DEMETER_INTERNATIONAL	16	Demeter-International e. V. is a non-profit organisation and its member organisations work together in the spirit of an international confederation with democratic principles. Membership requires a functioning Demeter certification programme.
BIOLAND	17	Bioland: The leading organic farmers' association in Germany for the economy of organic-based businesses without synthetic pesticides and synthetic chemical nitrogen fertilizer. The animals are kept humanely and processed food carefully. This provides an environmentally sound and sustainable food production. http://www.bioland.de .
QCS	19	Quality Certification Services, WSDA - Washington State Dept. of Agriculture

7.17. gs1:Packaging Feature Code

GS1 Code List	gs1:PackagingFeatureCode	
GS1 Code List Version	R1	
Managing Agency	GS1	
Based on Code List	n/a	
Type Of Management	n/a	
Code Value	Code Name	Code Definition
BASE	Base to stand up vertically	A general term applied to the support or pedestal of an object.
BEAM	Beams	Long sturdy piece of squared timber or metal used in house-building etc.
BUNG_SEAL	Bungs or seals	A bung is an apparatus used to seal a container, such as a bottle, barrel or tube" (or in this case). A bung is partially inserted inside the container to act as a seal. The most common every-day example of a bung is the stopper of a wine bottle.
CAP	Cap	A cap that seals a bottle or other form of packaging.
CARRIER	Carriers	A device of various types attached to or hung from trolleys to support the load.
CONSUMPTION_UTENSIL	Consumption Utensils (straws, spoons)	An item which allows the user to extract and/or consume the content of a container.
CORE	Core	A tubular shape around which flexible material such as plastic film or paper are wound for purposes of transport and handling.
CREEL	Creel	A creel is a device for holding the required number of roving spools or other supply packages of reinforcement fibres for Fibre Reinforced Plastics manufacturing. This device holds the rovings in the desired position for unwinding in continuous processes like Pultrusion and Filament Winding.
EDGE_PROTECTION	Edge Protection	A right-angle piece placed over the outermost perimeter edges of a container to distribute pressure and prevent collapse or cutting from banding, strapping, or handling.
HANDLE	Handles	A grip attached to an object for using or moving the object, usually with the hands.
LINER	Inner Coating or liners	An internal chamber within a container which separates the content of the container from the walls. Inner liners provide additional isolation and protection to the content of a container. Sometimes coatings of certain materials may be applied as an alternative to inner liners.
INNER_CONTAINER	Inner containers	
INTERNAL_DIVIDER	Internal Dividers	An internal divider is an object, either flat or custom-shaped, used to separate the content of a container or to prevent the content from mixing.
LABEL	Labels	A label is a piece of paper, polymer, cloth, metal, or other material affixed to a container or article (or printed directly upon it), which usually carries information about the article to which it has been attached.

LID	Lid	In packaging, the top or bottom of a container, usually the part that closes the opening; may also be known as cap, over, or top
LUG	Lug	A small indentation or raised portion on the surface of a bottle, provided as an indexing means for operations such as multi-pass decoration or labeling.
PULL_OFF_TAB	Pull-off tab	A flexible cover which can be easily removed in order to open a container.
NESTING_EDGE	Nesting Edges	Edges which allow items of the same size to be partially stacked within one another in any direction thus reducing the space required in order to stack them.
PEG	Pegs	A fastener which allows a product to be hanged.
RING HOLDER	Ring-Holders	A hollow circular band of material wound around itself.
RIVET	Rivets	A permanent fastener which consists of a cylindrical shaft with a head on one end and tail which is deformed to fixate the rivet in place.
SLEEVE	Sleeve	A tubular form, open at both ends, that is slipped over an item or package.
SPOUT	Spout	A spout is a protruding edge which allows the lifting and pouring of liquids contained within a container.
TAG	Tags	A hanging card made of any material which is used to identify or provide additional information of a product.
WICKER_OUTER_CONTAINER	Wicker Outer Container	An outer container made of wicker which is fitted to the bottle usually a little less than half way up from the bottom of the bottle and is used to hold, hang or support the bottle.
WRAP	Wrap	A layer of any material which completely enclose a product. A wrap can have many purposes, from providing additional protection to an item to serving as a gift-wrap.

7.18. gs1:Packaging Function Code

GS1 Code List	gs1:PackagingFunctionCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
ANTI_TAMPERING	A methodology used to hinder, or deter unauthorized access to a device.
ANTISEPTIC	The process by which a sterile (aseptic) product (typically food or pharmaceutical) is packaged in a sterile container in a way which maintains sterility.
ATOMIZER	A device for reducing a liquid to a fine spray. (e.g., medicine, perfume, etc.). An atomizer does not rely on a pressurised container for the propellant.
COATED	Covered with a material (paraffin, wax) that protects the product or packaging.

COMPRESSED	Content has been pressed together to the maximum possible way.
DISPENSER	A device or mechanism to supply or extract contents.
GIFT_WRAPPED	Packaging is wrapped in a decorative way for the purposes of the consumer giving it as a gift.
ISOTHERMIC	Thermal carry container designed for the carriage of temperature controlled goods such as vaccines, pharmaceuticals, and medicines.
MODIFIED_ATMOSPHERE	The practice of modifying the composition of the internal atmosphere of a package, (commonly food packages, and drugs) in order to improve the shelf life.
OXYGEN_INFUSED	A barrier packaging material for an infusion solution, i.e., oxygen.
PEEL_OFF	A section of the packaging can be detached with ease in order to have access to the content or product, e.g. peel-off Lids used for packing Milk, Coffee and Cacao Powder.
PINPACK	The package is equipped to be hung up on a hook".
PROTECTED	Functionality to keep from being damaged, attacked, stolen, or injured; guard.
REINFORCED	A component is added to a container for a particular application to lend additional support under severe applications.
SIFT_PROOF	Packaging is designed to prevent leaking of the content especially when it is on powdered or liquid state.
TAMPER_EVIDENT	The packaging is designed to show when there has been some interference with the original sealing or configuration of the packaging.
VACUUM_PACKED	Packaging in containers, either rigid or flexible, from which substantially all gases have been removed prior to final sealing of the container.
WATER_RESISTANT	Coated with materials that make the packaging impervious to the effects of water.

7.19. gs1:Packaging Marked Diet Allergen Code

GS1 Code List	gs1:PackagingMarkedDietAllergenCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
APPROVED_BY_ASTHMA_AND_ALLERGY_ASSOC	Definitions made by the asthma and allergist association.
APPROVED_FOR_TUBE_FEEDING	The item is physically marked that it is approved for tube feeding by the appropriate authority of the target market.
BIOLOGICAL	Indicates the product has been marked as a biological item which indicates a food product that was produced with the use of feed or fertilizer of plant or animal origin, without employment of chemically formulated fertilizers, growth stimulants, antibiotics or pesticides.
CALORIES_PER_PORTION	Indicates the product has a marking with the calories per portion contained in to the product.

COELIAC	Indicates that the diet is suitable for those with Coeliac disease.
CONTAINS_LATEX	The item is physically marked as containing Latex (rubber).
CONTAINS_PVC	The item is physically marked as containing PVC (Polyvinyl chloride). Phthalate content is unspecified.
CONTAINS_PVC_WITH_PHTHALATES	The item is physically marked as containing PVC (Polyvinyl chloride) with phthalates.
CONTAINS_PVC_WITHOUT_PHTHALATES	The item is physically marked as containing PVC (Polyvinyl chloride) without phthalates.
DIET_PRODUCT_450_800_KCAL_PER_DAY	The item is physically marked that it is approved for a 450-800 kilocalorie/day diet by the appropriate authority of the target market.
DIET_PRODUCT_800_1200_KCAL_PER_DAY	The item is physically marked that it is approved for an 800-1200 kilocalorie/day diet by the appropriate authority of the target market.
HALAL	Indicates the product has been marked as Halal which denotes selling or serving food ritually fit according to Islamic dietary laws.
KOSHER	Indicates the product has been marked as Kosher which denotes selling or serving food ritually fit according to Jewish dietary laws.
LACTASE_ENZYME	The item is physically marked that it is approved as lactase enzyme by the appropriate authority of the target market.
LOW_ON_PHENYLALANINE	The item is physically marked as containing a low level of phenylalanine as approved by the appropriate authority of the target market.
LOW_ON_SUGAR	The item is physically marked as containing a low level of sugar as approved by the appropriate authority of the target market.
MOTHERS_MILK_SUBSTITUTE	The item is physically marked that it is approved as substitute mother's milk the appropriate authority of the target market.
NUTRITION_SUPPLEMENT	The item is physically marked that it is approved as nutrition supplement by the appropriate authority of the target market.
VEGETARIAN	Indicates that the product has been marked as vegetarian which denotes a product that contains no meat, fish or other animal products.

7.20. gs1:Packaging Marked Free From Code

GS1 Code List	gs1:PackagingMarkedFreeFromCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
FREE_FROM_CHOLESTEROL	The item is physically marked as having no Cholesterol.
FREE_FROM_CLONED_FOOD	The item is physically marked as being free from cloned food.
FREE_FROM_DAIRY	The item is physically marked as being free from dairy and dairy products, as approved by the appropriate authority of the target market.

FREE_FROM_EGG	The item is physically marked as free from egg.
FREE_FROM_FISH	The item is physically marked as being free from fish, as approved by the appropriate authority of the target market.
FREE_FROM_GLUTEN	The item is physically marked as free from gluten. This level of containment is frequently determined through regulation for example per EU Regulation (EC) No 41/2009 [of 20 January 2009], this is defined as ≤ 20 mg/kg).
FREE_FROM_LACTOSE	The item is physically marked as being free of lactose.
FREE_FROM_LATEX	The item is physically marked being free from Latex (rubber) as approved by the appropriate authority of the target market.
FREE_FROM_LEGUME_PROTEIN	The item is physically marked as being free from legume protein, as approved by the appropriate authority of the target market.
FREE_FROM_MILK	The item is physically marked as being free from milk and any of its derivatives, as approved by the appropriate authority of the target market.
FREE_FROM_MILK_PROTEIN	The item is physically marked as being free from milk protein.
FREE_FROM_NATURAL_GLUTEN	The item is physically marked as being naturally free from gluten and not extracted as part of the manufacturing process, as approved by the appropriate authority of the target market.
FREE_FROM_PEAUNTS	The item is physically marked as being free from peanuts.
FREE_FROM_PROTEIN	The item is physically marked as being free from protein, as approved by the appropriate authority of the target market.
FREE_FROM_PVC	The item is physically marked as being free from PVC (Polyvinyl chloride), as approved by the appropriate authority of the target market.
FREE_FROM_SOYA	The item is physically marked as being free from soya.
FREE_FROM_SUGAR	The item is physically marked as being free from sugar.
FREE_FROM_TRANS_FAT	The item is physically marked being free from Trans Fatty Acids (Trans Fat) as approved by the appropriate authority of the target market.
REDUCED_LACTOSE	The item is physically marked as having a reduced amount of lactose
REDUCED_PROTEIN	The item is physically marked as containing a low level of protein as approved by the appropriate authority of the target market.
REDUCED_TRANSFAT	The item is physically marked as having a reduced amount of trans fats (unsaturated).
VERY_LOW_GLUTEN	The item is physically marked as a very low amount of gluten. Very low is frequently determined through regulation for example, per EU Regulation (EC) No 41/2009 [of 20 January 2009], this is defined as containing between 20 and 100 mg/kg).
WITHOUT_ADDED_SUGAR	The item is physically marked that no sugar has been added when manufacturing the product but it still can contain sugars that are naturally part of the ingredients, as approved by the appropriate authority of the target market.
WITHOUT_ADDED_SWEETENER	The item is physically marked that no sweetener has been added when manufacturing the product as approved by the appropriate authority of the target market.

7.21. gs1:Packaging Marked Label Accreditation Code

GS1 Code List	gs1:PackagingMarkedLabelAccreditationCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Value	Description
AMA_ORGANIC_SEAL	Austria Ministry of Agriculture Organic Label, AMA Marketing licenses the AMA organic logo. Red, white and black indicates the majority of ingredients are of Austrian origin.
AUS_KAUP_ESTONIA	Used to specify Estonia Meat in their product. Eesti Lihatootlejate Assotsiatsioon
BDIH_LOGO	BDIH Germany guidelines for Certified Natural Cosmetics
BETER_LEVEN_1_STER	The one-star Beter Leven (better life) mark indicates that the product comes from a company that cares that animals are kept according to the minimal requirements for sanitation and well-being for the cattle industry.
BETER_LEVEN_2_STER	The two-star Beter Leven (better life) mark indicates that the product comes from a company that provides for a higher well-being of animals than that established by the minimal requirements for sanitation and well-being for the cattle industry, yet the conditions are inferior to those of Biological-class products.
BETER_LEVEN_3_STER	The three-star Beter Leven (better life) mark is awarded to products that come from companies that excel in keeping animals according to top guidelines for Biological-class products. In some cases this mark is accompanied by an EKO indication.
BIO_AUSTRIA_LABEL	Bio Austria is the Austrian Bio-network of Eastern organic farmers. Created from the former Association Harvest for Life
BIO_LABEL_GERMAN	German national organic certification label (Bio-Siegel)
BIO_SUISSE_BUD_SEAL	Represents interests of Swiss organic farmers.
BLUE_ANGEL	The Blue Angel is awarded to companies as kind of a reward for their commitment to environmental protection. They use it to professionally promote their eco-friendly products in the market. The Blue Angel is an ecological beacon showing the consumer the way to the ecologically superior product and promotes environmentally conscious consumption.
BORD_BIA_APPROVED	The Bord Bia Approved logo is awarded to a company which has been audited by Bord Bia to verify that processes, from farm to fork, comply with the highest Quality Assurance Standards. These standards include: animal welfare, traceability, environment, safety, feed, water, testing, inspection, hygiene and good manufacturing practice. "Bord Bia Approved" is awarded to a company where all the ingredients including meat content satisfy the Bord Bia requirements.

BORD_BIA_APPROVED_MEAT	Bord Bia Approved - Meat Content Only applies to companies where only the meat content satisfies certain conditions detailed in the Bord Bia requirements document.
BRA_MILJOVAL_LABEL_SWEDISH	Bra Miljöval Bra Miljöval is the ecolabel of SSNC. It is referred to as "Good Environmental Choice" in English. SSNC started ecolabelling
CROSSED_GRAIN_SYMBOL	Crossed grain logo is a trademark owned and administered by Coeliac. It is a worldwide symbol for safe gluten-free foods. Each country has their own Coeliac website.
DEMETER_LABEL	Demeter International trademark for products of certified biodynamic production.
EC_NATIONAL_HEALTH_MARK	The package is physically marked with EC National Health Mark. The EC National Health Mark is the health mark for specific hygiene regulations for food of animal origin. The regulation (EC) Nr. 853/2004 of 29. April 2004 of the European Parliament on hygiene rules for food of animal origin demands that companies handling products of animal origin are authorised according to this regulation. The official body responsible for this authorisation assigns a health mark to the food producing company
ECO_LABEL_LADYBUG	This is a Finnish label used by the Organic union, which represents the entire Finnish organic industry, consumers and producers in a common interest group. They work as a neutral voice in various working groups and consultations, and prepare position papers and presentations. The Federation also organizes training events and professional seminars. The Organic Federation also publishes the magazine Organic.
ECOCERT_CERTIFICATE	ECOCERT is a certification body for sustainable development.
EESTI_OKOMARK	Estonian Eco Label: Ministry of Agriculture Ökomärk (Label of Organic Food)
EESTI_PARIM_TOIDUAIN	Best Food Association of Estonia Food Industry An organisation that supports and promote Estonian food industry and economy, and contribute to a balanced and appropriate ethics to members of a favourable business environment for development.
EKO	This symbol stands for organic production certified by Skal that meets the requirements of the EU-regulation for organic production. Skal is the inspection body for the organic production in the Netherlands.
EU_ECO_LABEL	The item is physically marked with the European Union Eco label a European environmental initiative supported by the European Commission.
EU_ORGANIC_FARMING	New EU organic logo the EU introduced a new organic logo to ensure consumer protection and common standards.
EXTREMELY_CLEAN	The package is physically marked as extremely clean which slightly lower level of cleanness than sterile is. This means that it is free from bacteria and other microorganisms to a level defined as extremely clean by the appropriate authorities of the target market.

FAIR_TRADE_MARK	The FAIR TRADE Mark certifies that products meet the social, economic and environmental International Fair trade Standards. The FAIR TRADE Mark is usually supported by a local Fair Trade Labelling Organisation and certifies products not companies. It does not cover the companies or organisations selling the product
FALKEN	Falken
FINNISH_HEART_SYMBOL	The heart symbol to inform the consumer at one glance that the product marked with this symbol is a preferred choice in its product group with regard to fat and sodium. Finnish Heart Association.
FOREST_STEWARDSHIP_COUNCIL_LABEL	The item is physically marked with the Forest Stewardship Council label.
GMO_MARKED	The item is physically marked as of genetically modified origin.
GOODS_FROM_FINLAND_BLUE_SWAN	Finland Blue Swan
GREEN_DOT	Green Dot
GREEN_RESTAURANT_ASSOCIATION_ENDORSED	The item is physically marked with the Green Restaurant Association Endorsed symbol.
GREEN_SEAL_CERTIFIED	The item is physically marked with the Green Seal Certified symbol.
GUARANTEED_IRISH	Ireland: The Guaranteed Irish symbol makes shopping for Irish products and services a lot easier. Shoppers know that when they buy a product or service featuring the guaranteed Irish logo they are supporting Irish companies and safeguarding Irish jobs.
KRAV_MARK	KRAV Mark
LABEL_OF_THE_ALLERGY_AND_ASTMAMA_FEDERATION	Allergy and Asthma Federation is a non-profit public health organisation. Our aim is to improve quality of life of the allergy and asthma patients.
LEAPING_BUNNY	The Coalition for Consumer Information on Cosmetics' (CCIC) Leaping Bunny Program administers a cruelty-free standard and the internationally recognized Leaping Bunny Logo for companies producing cosmetic, personal care, and household products. The Leaping Bunny Program provides the best assurance that no new animal testing is used in any phase of product development by the company, its laboratories, or suppliers.
LOODUSSOBRALIK_TOODE_ESTONIA	Eco-friendly product The sign "eco-friendly product" is designed to make environmentally friendly products on store shelves more as significant. When it comes to food shall be used for agriculture, natural farming methods. No use of mineral fertilizers, insect control and plant poisons.
LOVE_IRISH_FOOD	Love Irish Food - a promotional label printed on the product packaging to indicate to the consumer that the food is manufactured in Ireland using Irish ingredients.
MADE_IN_FINLAND_FLAG_WITH_KEY	Made in Finland Products that are made in Finland Avainlippu (Key Flag) Suomalaisen Työn
MARINE_STEWARDSHIP_COUNCIL_LABEL	The item is physically marked with the Marine Stewardship Council label.

MAX_HAVELAAR	Fair trade symbol used in the Netherlands Target Market awarded to manufacturers which contribute to improving the living and working conditions of small farmers and agricultural workers in disadvantaged regions.
NATRUE_LABEL	The NATRUE Label guarantees that the products that carry it are made only with natural and organic ingredients, through soft manufacturing processes and environmentally friendly practices. The NATRUE Label is awarded by NATRUE, a non-profit organisation committed to promote and protect high standards of quality and environmental integrity.
NYCKELHALET	The green key hole is to be put on the healthy foods in Sweden, Denmark, and Norway within certain product groups in order to make it easier for the customers to make a healthy choice.
OEKO_TEX_LABEL	Confidence in textiles – this has been the motto of the independent test institutes of the International Oeko-Tex® Association since 1992, with their tests for harmful substances according to Oeko-Tex® Standard 100 for textile products of all types which pose no risk whatsoever to health.
OFFICIAL_ECO_LABEL_SUN	Luomo Sun Sign Denotes controlled organic production. The official label of the Finnish inspection authorities; owned by the Ministry of Agriculture and Forestry. http://opetus.ruokatieto.fi/
PEFC	Programme for Endorsement of Forest Certification (PEFCC_ is an international non-profit, non-governmental organisation dedicated to promoting Sustainable Forest Management (SFM) through independent third-party certification
PROTECTED_DESIGNATION_OF_ORIGIN	The Protected designation of origin is the name of an area, a specific place or, in exceptional cases, the name of a country, used as a designation for an agricultural product or a foodstuff, the entire product must be traditionally and ENTIRELY manufactured (prepared, processed AND produced) within the specific region and thus acquire unique properties. Protected Geographical Status (PGS) is a legal framework defined in European Union law to protect the names of regional foods.
PROTECTED_GEOGRAPHICAL_INDICATION	The Protected geographical indication is the name of an area, a specific place or, in exceptional cases, the name of a country, used as a description of an agricultural product or a foodstuff, the entire product must be traditionally and at least PARTIALLY manufactured (prepared, processed OR produced) within the specific region and thus acquire unique properties. Protected Geographical Status (PGS) is a legal framework[1] defined in European Union law to protect the names of regional foods.
PROTECTED_HARVEST_CERTIFIED	The item is physically marked with the Protected Harvest Certified symbol.
QUALITY_MARK_IRELAND	Control IMO Organic farming is an alternative, environmentally friendly method of food production. It forbids the use of chemicals and requires production methods that respect animal welfare and do not damage the environment. The term 'organic' can only be used on food labels in Ireland if the food product meets strict Irish and EU organic standards and is licensed by an approved certification body.
RAINFOREST_ALLIANCE	The item is physically marked with the Rainforest Alliance Certified symbol.

SCHARRELVLEES	A symbol used in the Netherlands Target Market intended for meat based products which guarantees that the animals has been growth without the use of antibiotics.
SOIL_ASSOCIATION_ORGANIC_SYMBOL	The Soil Association Organic Symbol is a symbol used in the UK to show that products meet a strict set of organic standards that protect health, sustainability and the environment.
STERILE	The package is physically marked as sterile, which is the highest level of cleanness. This means that it is free from bacteria and other microorganisms to a level defined as sterile by the appropriate authorities of the target market.
SUSTAINABLE_PALM_OIL_RSPO	In response to the urgent and pressing global call for sustainably produced palm oil, the Roundtable on Sustainable Palm Oil (RSPO) was formed in 2004 with the objective of promoting the growth and use of sustainable oil palm products through credible global standards and engagement of stakeholders.
SVANEN	The Swan is the Nordic environmental label. It was established by the Nordic Council of Ministers in 1989 and Denmark joined in 1997. The Swan is used in all Nordic countries, i.e. Denmark, Norway, Sweden, Finland and Iceland.
SWEDISH_SEAL_OF_QUALITY	The item is physically marked with the Swedish Seal of Quality label which intends to guarantee the responsibility for the environment of the product.
TRADITIONAL_SPECIALTY_GUARANTEE D	The Traditional specialty guaranteed is a trademark for an agricultural product or a foodstuff, which has a certain feature or a set of features, setting it clearly apart from other similar products or foodstuffs belonging to the same category. The product or foodstuff must be manufactured using traditional ingredients or must be characteristic for its traditional composition, production process, or processing reflecting a traditional type of manufacturing or processing.
TUNNUSTATUD_EESTI_MAITSE	Approved Estonian Taste - Quality/Tradition/Origin/Traceability for Estonian products. All raw materials must be 100% Estonian. Estonian Chamber of Agriculture and Commerce
TUNNUSTATUD_MAITSE	Approved Taste label (designed as a barn swallow) denoting Estonian origin and high quality was introduced. This label has been given to products for Food quality and safety. Estonian Chamber of Agriculture and Commerce (ECAC) www.epkk.ee
UNIQUELY_FINNISH	Uniquely Finnish http://www.maakuntienparhaat.fi/en/ The Uniquely Finnish label is a national quality label for small entrepreneurs. ProAgria Association of Rural Advisory Centres grants the label to qualified foodstuff, handicraft and rural tourism companies based on applications.
USDA	US Department of Agriculture
UTZ_CERTIFIED	A certification which is intended to assure the social and environmental quality in coffee production. Coffee based products may be marked with this certification.
VAELG_FULDKORN_FORST	Grain based foods (bread, breakfast products, baking articles etc.) which have got a high content of whole grain will be puffed with a nutritional puff from the beginning of 2009: Please choose whole grain first!

WWF_PANDA_LABEL	Products that support the World Wildlife Fund.
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7.22. gs1:Packaging Material Type Code

GS1 Code List	gs1:PackagingMaterialTypeCode	
GS1 Code List Version	R1	
Managing Agency	GS1	
Based on Code List	n/a	
Type Of Management	n/a	
Code Value	Code Name	Code Definition
CERAMIC	Ceramic	A non-specific material made from clay and hardened by firing at a high temperature. Examples can include Terra-cotta, Earthenware, Stoneware, Porcelain, and High-Tech Ceramics.
CLOTH_OR_FABRIC	Cloth or Fabric	A non-specific material made by weaving, felting, knitting, or crocheting natural and/or synthetic fibres.
COMPOSITE	Composite	A material that is made from multiple materials.
CORRUGATED_BOARD_DOUBLE_WALL	Double Wall Corrugated Board	A structure formed by two corrugated inner members glued to one intervening flat facing paperboard with two additional paperboards to each outside corrugated.
CORRUGATED_BOARD_OTHER	Corrugated Board Other	A structure formed by one corrugated inner member glued to one flat facing paperboard; also termed single faced.
CORRUGATED_BOARD_SINGLE_WALL	Single Wall Corrugated Board	A structure formed by one corrugated inner member glued between two flat facing paperboards; also termed double faced.
CORRUGATED_BOARD_TRIPLE_WALL	Triple Wall Corrugated Board	A structure formed by three corrugated inner members glued to two intervening flat facing paperboards with two additional paperboards to each outside corrugated.
FIBRE_OTHER	Fibre Other	A nonspecific material made of a unit of matter, either natural or manufactured, that forms the basic element of fabrics and other textile structures.
FIBRE_JUTE	Fibre Jute	A bast fibre obtained from the round pod jute or the long pod jute of the family Tiliaceae. Grown extensively in Pakistan and India, mainly in the Bengal district of Pakistan.

FIBRE_BURLAP	Burlap	The American name for cloth woven from jute fibres. In other parts of the world it is known as Hessian, Hessian cloth, or gunny from the Indian gain.
FIBRE_COTTON	Fibre Cotton	A natural cellulosic seed-hair fibre, obtained from the seed pod of the cotton plant. First known in India about 3000 B.C.
FIBRE_FLAX	Fibre Flax	The plant from the stem of which bast fibre is extracted by retting to produce linen. An erroneous term for linen fibre, particularly in blends.
FIBRE_HEMP	Fibre Hemp	Hemp is a commonly used term for varieties of the Cannabis plant. Hemp can yield fibre which can be used in ropes, cloths, weaves, as a reinforcement of polymer composites as well as pulps for paper making.
FOAM	Foam	A non-specific material in a lightweight cellular form resulting from introduction of gas bubbles during manufacture, used to reduce shock and vibration or abrasion.
GLASS	Glass	A non-specific inorganic substance fused at high temperatures and cooled quickly so that it solidifies to a vitreous or noncrystalline condition. This term applies to transparent clear glass or as a generic term if distinction with coloured glass is not desired.
GLASS_COLOURED	Coloured Glass	Glass containing external colouring or glass that has been coloured by the addition of colouring agents/particles in its creation
LAMINATED_CARTON	Laminated Carton	A material made up of laminates of paperboard, foil and polyethylene which combined form a sheet suitable for aseptic processing.
METAL_ALUMINUM	Aluminium	A nonspecific material made from aluminium or aluminium alloy.
METAL_BRASS	Brass	Brass is an alloy of copper and zinc.
METAL_IRON	Iron	A heavy metallic element (Fe) capable of being fashioned into a variety of forms.
METAL_LEAD	Lead	A bluish-white soft malleable ductile plastic but inelastic heavy metallic element (Pb)
METAL_OTHER	Metal	A nonspecific material made from metal or metal alloy material.
METAL_STAINLESS_STEEL	Stainless Steel	An alloy of steel with chromium and sometimes another element (as nickel or molybdenum) that is practically immune to rusting and ordinary corrosion
METAL_STEEL	Steel	Commercial iron that contains carbon in any amount up to about 1.7 percent as an essential alloying

		constituent, is malleable when under suitable conditions, and is distinguished from cast iron by its malleability and lower carbon content.
METAL_TIN	Tin	Tin is a chemical element that is obtained chiefly from the mineral cassiterite, where it occurs as an oxide, SnO ₂ . This silvery, malleable poor metal is not easily oxidized in air, and is used to coat other metals to prevent corrosion. It is used in many alloys, most notably bronze
MINERAL_CALCIUM_CARBOONATE	Calcium Carbonate	Ground calcium carbonate and precipitated calcium carbonate products serve as functional fillers in plastic and rubber applications. Calcium carbonate is widely used as in polyvinyl chloride (PVC), polyolefin, polypropylene (PP), polyethylene (PE) and unsaturated polyester resins applications. Calcium carbonate is used for its excellent optical properties, ability to improve impact strength, role as a processing aid and ability to replace plastic resins.
MINERAL_OTHER	Mineral Other	Any other mineral-based material not available in this list. Should be used as a temporary measure while a proper code is established
MINERAL_TALC	Talc	Talc is used to stiffen thermoplastics, mainly polypropylene but also polyethylene and polyamide (Nylon).
NATURAL_RUBBER	Natural rubber	A strong elastic material made by drying the sap from various tropical trees, especially the American rubber tree.
OTHER	Not Otherwise Specified	A non-specific material that cannot be defined with the current material codes. Should be used as a temporary measure while a proper code is established for the type of material.
PAPER_CORRUGATED	Corrugated	The most common type of box manufactured from containerboard, layers of linerboard and one layer of medium. The layers are combined on a corrugator, a machine that presses corrugations into the medium and laminates a layer of linerboard to each side. The sheets are folded, printed, and glued or stapled to make a finished box.
PAPER_MOLDED_PULP	Molded Pulp	Used for producing pulp-based or fibrous products by pressing; example products: egg packages, trays and boxes for fruits and

		vegetables.
PAPER_OTHER	Paper Other	Any other paper-based material not available in this list. Should be used as a temporary measure while a proper code is established.
PAPER_PAPER	Paper	A non-specific sheet material produced by the matting of fibres from wood, rags, or other fibrous materials. Generally, paper is of a lesser thickness or weight than paperboard.
PAPER_PAPERBOARD	Paperboard	A nonspecific material, generally made from cotton or wood, that describe a variety of board materials used in the production of boxes, folding cartons, and solid fibre and corrugated shipping containers; also termed cardboard
PAPER_RAYON	Rayon Paper	Generic term for a manmade fibre derived from regenerated cellulose.
PLASTIC_OTHER	Plastic Other	A non-specific material made of any of numerous organic synthetic or processed materials that are mostly thermoplastic or thermosetting polymers of high molecular weight and that can be made into objects, films, or filaments.
PLASTIC_BIO_PLASTIC	Bio-plastic	Plastic certified as compliant with the European norm EN13432 over being recyclable through disintegration or biodegradation
PLASTIC_THERMOPLASTICS	Thermoplastics	A non-specific substance that becomes soft and pliable when heated, without a change in its intrinsic properties. Polystyrene and polyethylene are thermoplastics.
POLYMER_CELLULOSE_ACETATE	Cellulose Acetate	Cellulose acetate is one of the most important esters of cellulose. Depending on the way it has been processed cellulose acetate can be used for a wide variety of applications, e.g. films, membranes or fibres.
POLYMER_EPOXY	Epoxy	Epoxy resins are thermoset polymers which are frequently used as coatings for metal packaging such as soft-drink cans.
POLYMER_EVA	Ethylene vinyl acetate, (EVA)	Ethylene vinyl acetate, a copolymer of 60 to 90% ethylene and 40 to 10% vinyl acetate. Packaging applications include soft films, coatings, hot melt adhesives, wine cork substitutes, and closure seals for plastic and metal container caps.
POLYMER_EVOH	Ethylene vinyl alcohol, (EVOH)	Ethylene vinyl alcohol, a copolymer of ethylene and vinyl alcohol. A plastic resin commonly used in food applications to provide barrier to oxygen and other gases.

POLYMER_HDPE	High Density Polyethylene (HDPE)	High-Density Polyethylene (HDPE) is a polyethylene thermoplastic made from petroleum. A strong, relatively opaque form of polyethylene having a dense structure with few side branches off the main carbon backbone. Can be applied to bottles, flasks and caps.
POLYMER_LDPE	Low-density polyethylene (LDPE)	Low-density polyethylene (LDPE) is a polyethylene thermoplastic made from petroleum. A strong form of polyethylene having a less dense structure with more side branches off the main carbon backbone (on about 2% of the carbon atoms) than HDPE; therefore its tensile strength is lower, and its resilience is higher. Made in translucent or opaque variations, it is quite flexible, and tough to the degree of being almost unbreakable. It is widely used for manufacturing various containers, dispensing bottles, wash bottles, tubing, plastic bags for computer components, and various moulded laboratory equipment. Its most common use is in plastic bags.
POLYMER_LLDPE	Linear Low Density Polyethylene	Linear low density polyethylene is a linear polyethylene with a significant number of short branches on the polymer backbone. It is commonly made by copolymerization of ethylene with longer-chain olefins. It is different from LDPE due to the absence of long chain branches which gives it higher tensile strength, impact and puncture resistance than LDPE. Common uses of LLDPE are plastic bags, wraps, stretch wraps, pouches, covers and lids.
POLYMER_MDPE	Medium-density Polyethylene	Medium-density polyethylene is a type of polyethylene defined by a density range of 0.926-0.940 g/cm ³ . MDPE is typically used in shrink films, sacks, packaging film and carrier bags.
POLYMER_NYLON	Nylon	Packaging applications include oven-baking bags (nylon 6 and nylon 66) and barrier layers (MXD6 and nylon 6) for PET and HDPE bottles. Very occasionally, bottles can be made of nylon.
POLYMER_OTHER	Polymers Other	A non-specific chemical compound or mixture of compounds formed by polymerization and consisting essentially of repeating structural units
POLYMER_PAN	Polyacrylonitril (PAN)	Polyacrylonitril is an organic polymer which is frequently used in fibres for textiles. As fibres the

		material is frequently referred to as Acrylic.
POLYMER_PC	Polycarbonate (PC)	Polycarbonate, a transparent thermoplastic which is used in a wide variety of applications including CDs and DVDs, eyeglasses, cell phone covers, laptops as well as packaging applications such as bottles.
POLYMER_PCL	Polycaprolactone (PCL)	Polycaprolactone is biodegradable polyester which is also used in in the manufacturing of polyurethanes. It is also used in blends with thermoplastic starch to improve properties and can also be used as a plasticizer to PVC.
POLYMER_PE	Polyethylene (PE)	A thermoplastic composed of the polymers of ethylene.
POLYMER_PEN	Polyethylene Naphthalate (PEN)	Polyethylene naphthalate is a polymer with good barrier properties (unlike Polyethylene terephthalate). It is well-suited for production of the amber-coloured bottles meant for packing beverages like beer.
POLYMER_PET	Polyethylene Terephthalate (PET)	Polyethylene terephthalate is a thermoplastic polymer resin of the polyester family and is used in synthetic fibres. Can be applied to bottles, flasks and caps.
POLYMER_PHA	Polyhydroxyalkanoates (PHA)	Polyhydroxyalkanoates are linear polyesters produced in nature by bacterial fermentation of sugar or lipids.
POLYMER_PLA	Polylactic Acid or Polylactide (PLA)	Polylactic acid or Polylactide is a biodegradable, thermoplastic, aliphatic polyester derived from lactic acid.
POLYMER_PP	Polypropylene (PP)	A non-specific material made of various thermoplastic plastics or fibres that are polymers of propylene.
POLYMER_PS	Polystyrene (PS)	A polymer prepared by the polymerization of styrene as the sole monomer
POLYMER_PU	Polyurethanes (PU)	Polyurethanes are primarily thermoset resins which are used in the manufacture of flexible and rigid foams, microcellular foam seals and gaskets, as well as high performance adhesives, surface coatings and sealants. Polyurethane can also be used to make synthetic fibres.
POLYMER_PVA	Polyvinyl Alcohol (PVA)	Polyvinyl alcohol (PVA or PVOH) is a biodegradable and highly water soluble polymer with high gas and grease barrier. Common uses for PVA are paper adhesives, paper coatings, as a self-standing water soluble films as well as blends to

		improve processing of thermoplastic starch.
POLYMER_PVC	Polyvinylchlorid (PVC)	A polymer of vinyl chloride used especially for electrical insulation, films, and pipes
POLYMER_PVDC	Polyvinylidene Chloride (PVDC)	Polyvinylidene chloride is primarily used as a barrier coating to provide barrier against fat, vapour and gases.
POLYMER_TPS	Thermoplastic Starch (TPS)	Thermoplastic starch is obtained through deconstructurisation of natural starch through exposure to shear and heat. TPS is most frequently used in blends with biodegradable synthetic polymers such as PCL and PVA.
RUBBER	Rubber	A strong elastic synthetic substance made either by improving the qualities of natural rubber or by an industrial process using petroleum and coal products
WOOD_HARDWOOD	Hardwood	A general term referring to any variety of broad-leaved, deciduous trees, and the wood from those trees. The term has nothing to do with the actual hardness of the wood; some hardwoods are softer than certain softwood (evergreen) species.
WOOD_OTHER	Wood	A nonspecific material made from the hard fibrous lignified substance under the bark of trees.
WOOD_SOFTWOOD	Softwood	General term used to describe lumber produced from needle and/or cone bearing trees (Conifers).
VINYL	Vinyl	A non-specific polymer of a vinyl compound or a product (as a resin or a textile fibre) made from such a polymer
WIRE	Wire	A non-specific material made of metal in the form of a very flexible thread or slender rod.

7.23. gs1:Packaging Recycling Process Type

GS1 Code List	gs1:PackagingRecyclingProcessTypeCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
COMPOSTABLE	Packaging that can biodegrade generating a relatively homogeneous and stable humus-like substance.
ENERGY_RECOVERABLE	Packaging which allows for a net calorific gain in energy recovery operations.

RECYCLABLE	Packaging material and format which can be diverted from the waste stream through available processes and programmes and can be collected, processed and returned to use in the form of raw materials or products.
REUSABLE	Packaging that has been conceived and designed to accomplish within its life cycle a certain number of trips, rotations or uses for the same purpose for which it was conceived.

7.24. gs1:Packaging Recycling Scheme Code

GS1 Code List	gs1:PackagingRecyclingSchemeCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
A_PULLO	PALPA stands for Suomen Palautuspakkaus Oy. PALPA administers the recycling of beverage containers and promotes recycling in Finland. A-pullo is one of the recycling systems PALPA administers. This is a recycling system used in Finland.
ALKO	Alko inc. is an independent, entirely State-owned company. Alko is administered and supervised by the Ministry of Social Affairs and Health. They have own recycling system for alcohol products bottles called Alko. This is a recycling system used in Finland
CEN	Comite Europeen de Normalisation / European Committee for Standardisation) is a major provider of European Standards and technical specifications. It is the only recognized European organisation according to Directive 98/34/EC for the planning, drafting and adoption of European Standards in all areas of economic activity with the exception of electrotechnology (CENELEC) and telecommunication (ETSI).
EKO_PULLO	PALPA Standas for Suomen Palautuspakkaus Oy. PALPA administers the recycling of beverage contains and promotes recycling in Finland. EKO-pullo is one of the recycling systems PALPA administers. This is a recycling system used in Finland.
PALPA	PALPA stands for Suomen Palautuspakkaus Oy. PALPA administers the recycling of beverage containers and promotes recycling in Finland. PALPA is one of the recycling systems PALPA administers. This is a recycling system used in Finland.

7.25. gs1:Packaging Shape Code

GS1 Code List	gs1:PackagingShapeCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
BAR	A relatively long, evenly shaped piece of some solid substance
COIL	A spiral structure made by winding a material into a series of loops. A coil may or may not have a spindle around which the loops are formed.
CONE	A cone is a three-dimensional geometric shape that tapers smoothly from a flat, round base to a point.
CYLINDRICAL	A long shape that has a circular base and an equally-sized circular top.
POLYGON	A plane figure that is bounded by a closed path or circuit composed of a finite sequence of equally-sized straight line segments. A polygon may have a varying number of segments or 'faces' resulting in different configurations, for example a 5-faced polygon: pentagon, 6-faced: hexagon, 8-faced: octagon, 12-faced: dodecahedron, etc.
RECTANGULAR	A closed planar quadrilateral with four right angles.
SPHERICAL	A perfectly round geometrical object in three-dimensional space, such as the shape of a round ball. Like a circle in two dimensions, a perfect sphere is completely symmetrical around its centre, with all points on the surface lying the same distance from the centre point.
TABLET	The result of different materials being compressed into a solid block usually of small dimensions.
UNSPECIFIED	Shape is not currently specified in the list. To be used as a temporary means until a specific missing value is added to the list.

7.26. gs1:Party Role Code

GS1 Code List	gs1:PartyRoleCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Values	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PartyRoleCode&release=2

7.27. gs1:Payment Method Code

GS1 Code List	gs1:PaymentMethodCodeList
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Values	http://apps.gs1.org/GDD/Pages/clDetails.aspx?semanticURN=urn:gs1:gdd:cl:PaymentMethodCode&release=1

7.28. gs1:Preparation Type Code

GS1 Code List	gs1:PreparationTypeCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
AS_DRAINED	The state of the product after it has been separated from any liquid within the package” – For example, a can of apricots in syrup would have a different nutritional composition if the apricots are consumed with the syrup rather than if the syrup is drained before consuming the apricots (because of the high sugar and energy content of the syrup).
BAKE	Cooking food in an oven by dry heat applied evenly throughout the oven
BARBECUE	Method of cooking meat with the heat and hot gasses of a fire
BLANCH	Food preparation wherein the food substance is rapidly plunged into boiling water and then removed after a brief, timed interval and then plunged into iced water or placed under cold running water
BLIND_BAKE	Baking a pie crust or other pastry without the filling
BOIL	Cooking food in boiling water, or other water-based liquid such as stock or milk

BRAISE	Cooking with "moist heat", typically in a covered pot with a small amount of liquid
BROIL	Cooking food with high heat with the heat applied directly to the food, most commonly from above. Heat transfer to the food is primarily via radiant heat
DEEP_FRY	Cooking method whereby food is submerged in hot oil or fat.
DOUBLE_STEAM	Cooking technique to prepare delicate food such as bird nests, shark fins etc. The food is covered with water and put in a covered ceramic jar
FREEZE	Convert the product from room temperature to a frozen state. Simple
FRY	Cooking of food in fat.
GRIDDLE_FRY	Form of cooking where the food is fried with its own fat.
GRILL	Form of cooking that involves direct heat. The definition varies widely by region and culture
HEAT_AND_SERVE	Prepare the item by simply heating or warming to a desired temperature or visual state prior to serving
MICROWAVE	Cooking food by employing microwave radiation
PAN_FRY	Form of frying characterised by the use of less cooking oil than deep frying
POACH	Cooking food by gently simmering food in liquid, generally water, stock or wine
PREPARED	The state of the product after preparation (e.g. after adding milk or water).
PRESSURE_COOK	Method of cooking in a sealed vessel that does not permit air or liquids to escape below a pre-set pressure
PRESSURE_FRY	Meat and cooking oil are brought to high temperatures while pressure is held high enough that the water within is prevented from boiling off
READY_TO_DRINK	No Preparation. The trade Item is ready for use after being taken out of the packaging (if packaging exists) without the need of any further action prior to consumption or use.
READY_TO_EAT	No Preparation. The trade Item is ready for use after being taken out of the packaging (if packaging exists) without the need of any further action prior to consumption or use.
RECONSTITUTE	Restore a dry or concentrated food to its original strength or consistency by adding water.
REFRIGERATE	Convert the product from room temperature to a chilled state.
ROAST	Cooking method that uses dry heat, whether an open flame, oven, or other heat source.
ROTISSERIE	Style of roasting where meat is skewered on a spit and revolves over a flame

SAUTE	Cooking food using a small amount of fat in a shallow pan over relatively high heat
SEAR	Technique used in grilling, roasting, braising, sautéing, etc. That cooks the surface of the food (usually meat, poultry or fish) at high temperature so that a caramelised crust forms
SIMMER	Cook food by heating it in water kept just below the boiling point (same as coddling)
SMOKE	Process of curing, cooking, or seasoning food by exposing it for long periods of time to the smoke from a wood fire
STEAM	Cooking by first boiling the water so it will evaporate into steam, then the steam will carry heat to the food, thus achieving heating the food
STEW	Preparing meat cut into smaller pieces or cubes by simmering it in liquid, usually together with vegetables
STIR_FRY	Chinese cooking technique used because of its fast cooking speed
THAW	Convert the product from a frozen state to a chilled or room temperature state.
UNPREPARED	The initial state of the product.
UNSPECIFIED	Unknown, not applicable

7.29. gs1:Preservation Technique Code

GS1 Code List	gs1:PreservationTechniqueCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
ACIDIFICATION	Dropping pH of food
ALCOHOL_CURING	Treatment of food by adding alcohol in order to preserve the product
ATTESTED_MILK	Raw Milk (without heat treatment)
BOILING	Cooking
BRINING	Water saturating or strongly impregnating with salt
CANNING	Preserved in a sealed airtight container, usually made of tin-coated iron
COLD_SMOKE_CURING	To smoke the food at between 70 degrees to 90 degrees F.
CONSERVE	Keep from harm or damage
DEHYDRATION	To remove water from food
DRYING	Making with moisture having evaporated, drained away
FERMENTATION	Any of a group of chemical reactions induced by living or non-living ferments that split complex organic compounds into relatively simple substance
FREEZE_DRYING	Preserving food by freezing and then drying in a vacuum

FREEZING	Turning into ice or another solid by cold
HIGH_TEMPERATURE_TREATED_MILK	Legally also pasteurisation, MHD for longer (about 2 to 3 weeks), ESL-milk
HOT_SMOKE_CURING	Hot-smoking partially or totally cooks the food by treating it at temperatures ranging from 100 degrees to 190 degrees F.
IONISATION	To convert into an ion or ions
IRRADIATION	Food irradiation is the process of exposing food to ionising radiation in order to disinfest, sterilise, or preserve food.
PASTEURISATION	Partially sterilisation by heating
QUICK_FREEZING	Freezing (food) rapidly so as to preserve its qualities
SALT_CURING	Preserving by using a salt brine
SOUS_VIDE	Low temperature long time cooking under vacuum
STERILISATION	A process that effectively kills or eliminates transmissible Agents (such as fungi, bacteria, viruses, spore forms, etc.).
SUGAR_CURING	Treatment of food by adding sugar in order to preserve the product
ULTRA_HIGH_TEMPERATURE	Ultra heat treated (especially for milk)
UNDER_MODIFIED_ATMOSPHERE	Packed with a gas with protective proprieties
VACUUM_PACKED	Sealed after the partial removal of air

7.30. gs1:Product Yield Type Code

GS1 Code List	gs1:ProductYieldTypeCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
AFTER_COOKING	Weight or volume of food product after it has been prepared.
AFTER_DILUTION	Volume of food product after a fluid has been added.
DRAINED_WEIGHT	Weight of food product after the fluid in which the food product was preserved has been removed.
UNSPECIFIED	Product yield type is unknown or irrelevant.

7.31. gs1:Referenced File Type Code

GS1 Code List	gs1:ReferencedFileTypeCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
CERTIFICATION	Document which contains a special certification by a third party (e.g. International Food Standard [IFS], QS-Approval Mark for meat product, sausage, fruit, vegetables and potatoes or bio audits).
CHEMICAL_ASSESSMENT_SUMMARY	Link to a file containing the chemical ingredient information sent to the supplier from a third party as a result of the assessment.
CHEMICAL_SAFETY_REPORT	Link to the file containing a report detailing the risks arising from the manufacture and/or use of a substance and to ensure that they are adequately controlled.
DIET_CERTIFICATE	Link to a website or file containing a diet certificate granted to the product
DOCUMENT	Link to a document or text file containing product information. Examples of this type could be an instruction manual, assembly guide, or warranty document.
GROUP_CHARACTERISTIC_SHEET	Definition not available.
HAZARDOUS_SUBSTANCES_DATA	Link to a file where to locate the 'out of network data' additional data concerning the control of substances can be found.
LOGO	Link to a file containing the Manufacturer or Brand Logo(s) associated with the product.
MARKETING_INFORMATION	Link to a file with product information associated with selling a product or service.
MOBILE_DEVICE_IMAGE	Trade Item image that represents the image the manufacturer supplies to the consumer for mobile device applications
OTHER_EXTERNAL_INFORMATION	Link to a file containing product information of an unspecified type.
OUT_OF_PACKAGE_IMAGE	Link to an image of an item out of its packaging and, if necessary, assembled ready for use by the end user. This type of file is subject the current version of the GDSN Product Image Specification Standard.
PLANOGRAM	Link to a file illustrating how and where retail products should be displayed.
PRODUCT_WEBSITE	Link to a website containing product specific information. Examples of this could be a link to a website dedicated to the product or a link to the area within the manufacturer or brand owner website that contains the product information
PRODUCT_LABEL_IMAGE	Link to a file containing a visual representation of the product label.
QUALITY_CONTROL_PLAN	Document which detailed information about the quantity of laboratory/analytical tests and the evaluated parameters.
REGULATORY_INSPECTION_AUDIT	Inspection report of the inspections. For example foodstuffs, pharmaceuticals and other types of products that are regulated.
RISK_ANALYSIS_DOCUMENT	Document which describes how the supplier assured the quality control of the end products or during the production process. The process can be a supplier internal control system, a simple kind of risk analysis or

	systematic preventive approach according Hazard Analysis and Critical Control Points (HACCP).
SAFETY_DATA_SHEET	Link to a file containing the product's Safety Data Sheet (SDS). This file can be either an image or a document
SAMPLE_SHIPPING_ORDER	Document is a sample shipping order. A sample shipping order isn't needed for every item (GTIN), but a shipping order can differ from GTIN to GTIN. E.g. in case an item is an organic product the sample shipping order needs to contain the organic product origin number according article 31 of the implementing regulations EG Nr. 889/2008. For non-organic items this information isn't needed.
TESTING_METHODODOLOGY_RESULTS	Document which contains microbiological and physico-chemical findings of the product which are observed during product testing.
TRADE_ITEM_DESCRIPTION	Identifies the reference to an external description of a Trade Item. The link (e.g. URL) to the external description. will be in the appropriate attribute
VIDEO	Link to a file containing a video clip which is relevant to the product. Examples are commercials, trailers, or instructional/ how to use video files.
WARRANTY_INFORMATION	Link to a file with information associated with any guarantee given by a company stating that a product is reliable and free from known defects and that the seller will, without charge, repair or replace defective parts within a given time limit and under certain conditions.
WEBSITE	Link to a website containing product or manufacturer information.

7.32. gs1:Season Parameter Code

GS1 Code List	gs1:SeasonParameterCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
ALL_YEAR	For trade items that are not seasonal in nature and apply to all selling seasons.
AUTUMN	For trade items that are seasonal in nature and apply to both the Autumn selling season.
AUTUMN_WINTER	For trade items that are seasonal in nature and apply to both the Autumn and Winter selling seasons.
SPRING	For trade items that are seasonal in nature and apply to the Spring selling season.
SPRING_SUMMER	For trade items that are seasonal in nature and apply to both the Spring and Summer selling seasons.
SUMMER	For trade items that are seasonal in nature and apply to Summer selling season.
WINTER	For trade items that are seasonal in nature and apply to the Winter selling seasons.

7.33. gs1:Sharpness of Cheese Code

GS1 Code List	gs1: SharpnessOfCheeseCode
GS1 Code List Version	R1
Managing Agency	GPC
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
EXTRA_EXTRA_SHARP	Extra Extra Sharp
EXTRA_SHARP	Extra Sharp
MILD	Mild
REGULAR	Regular
SHARP	Sharp
UNCLASSIFIED	Unclassified

7.34. gs1:Size Group Code

GS1 Code List	gs1:SizeGroupCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	
Type Of Management	n/a
Code Value	Code Definition
BOYS	Clothing size for male children.
GIRLS	Clothing size for female children.
INFANTS	Clothing size for infants.
JUNIORS	Clothing size typically for teenagers.
MATERNITY	Clothing size for
MENS	Clothing size for adult males.
MENS_TALL	Clothing size for adult males of above average height.
MISSSES	Clothing size for women typically greater than Juniors.
PETITE	A standard clothing size designed to fit women of shorter height.
WOMENS	Clothing size for adult females.
WOMENS_TALL	Clothing size for adult females of above average height.

7.35. gs1:Size System Code

GS1 Code List	gs1:SizeSystemCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	
Type Of Management	n/a
Code Value	Code Definition
AUSTRALIA	The Australian size system.
CONTINENTAL	The Continental European size system.
EUROPE	The European size system.
JAPAN	The Japanese size system.
MEXICO	The Mexican size system.
UK	The United Kingdom size system.
US	The United States size system.

7.36. gs1:Size Type Code

GS1 Code List	gs1:SizeTypeCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	
Type Of Management	n/a
Code Value	Code Definition
BACK	Definition not available.
CHEST_BUST	The measurement around the widest part of the chest/bust.
COLLAR	Definition not available.
CUP	Definition not available.
HIPS	The measurement around the fullest part of the hips.
INSEAM	Definition not available.
LENGTH	Definition not available.
ONE_DIMENSION	Definition not available.
OUTSIDE_LEG	The measurement of the outside leg seam. This is the distance from the waist to the bottom of the trousers.
SLEEVE	Definition not available.
WAIST	Definition not available.
WIDTH	Definition not available.

7.37. gs1:Source Animal Code

GS1 Code List	gs1:SourceAnimalCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
ALLIGATOR	A crocodilian in the genus Alligator of the family Alligatoridae.
ASS	A domesticated member of the horse family.
BEAR	Mammals of the family Ursidae.
BOAR	A wild relative of the domestic pig.
BUFFALO	A large bovine animal, frequently used as livestock.
CAMEL	Even-toed ungulates within the genus Camelus.
CHICKEN	A domesticated fowl.
COCKEREL	A male chicken.
COW	A domesticated member of the subfamily Bovinae.
CROCODILE	Any species belonging to the family Crocodylidae.
DEER	Ruminant mammals forming the family Cervidae.
DOG	A domesticated form of the Wolf, a member of the Canidae family of the order Carnivora.
DUCK	Aquatic birds, mostly smaller than the swans and geese, and may be found in both fresh water and sea water.
DUCKLING	A young duck.
FISH	Fresh or sea water fish.
FROG	Amphibians in the order Anura.
GOAT	A member of the Bovidae family and is closely related to the sheep
GOOSE	A bird belonging to the family Anatidae
GROUSE	A group of birds from the order Galliformes.
GUINEAFOWL	A family of birds in the Galliformes order
HARE	Leporidaes belonging to the genus Lepus.
HORSE	A hoofed (ungulate) mammal, a subspecies of one of seven extant species of the family Equidae.

INVERTEBRATE	Fresh or sea water invertebrate.
LAMB	A young domestic sheep.
LAND_SNAIL	A member of the molluscan class Gastropoda that have coiled shells in the adult stage and live on land.
MOOSE	The largest extant species in the deer family.
OSTRICH	Large flightless bird native to Africa.
OTHER	Other animal not specified on this list.
PARTRIDGE	Medium-sized birds, intermediate between the larger pheasants and the smaller quails.
PHEASANT	A bird in the subfamily of Phasianidae in the order Galliformes.
PIGEON	A bird in the family Columbidae.
PORK	Meat from the domestic pig
POUSSIN	A young chicken, less than 28 days old at slaughter
QUAIL	Several genus of mid-sized birds in the pheasant family.
RABBIT	Small mammals in the family Leporidae of the order Lagomorpha.
RAT	Rats are various medium-sized, long-tailed rodents of the superfamily Muroidea.
REINDEER	An Arctic and Subarctic-dwelling deer, widespread and numerous across the Arctic and Subarctic.
ROE_DEER	A deer species of Europe, Asia Minor, and Caspian coastal regions.
SHEEP	Small ruminants, usually with a crimped hair called wool and often with horns forming a lateral spiral.
SHELLFISH	A fresh or sea water animal, such as a mollusk or crustacean, that has a shell or shell-like exoskeleton.
SNAKE	Elongate legless carnivorous reptiles of the suborder Serpentes.
SNIFE	Any of nearly 20 wading bird species in three genera in the family Scolopacidae.
SPARROW	Small passerine birds in the family Passeridae.
THRUSH	Plump, soft-plumaged, small to medium-sized passerine birds.
TURKEY	A large bird in the genus Meleagris.
TURTLE	Reptiles characterised by a special bony or cartilaginous shell developed from their ribs that acts as a shield.
WOODCOCK	The woodcocks are a group of seven or eight very similar living species of wading birds in the genus Scolopax.
YAK	A long-haired bovine found throughout the Himalayan region of south Central Asia, the Tibetan Plateau and as far north as Mongolia.

7.38. gs1:Sporting Activity Type Code

GS1 Code List	gs1:Sporting Activity Type Code
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
AMERICAN_FOOTBALL	American Football
ARCHERY	Archery
BADMINTON	Badminton
BASEBALL	Baseball
BASKETBALL	Basketball
BOXING	Boxing
CLIMBING	Climbing
CRICKET	Cricket
CYCLING	Cycling
DIVING	Diving
EQUESTRIAN	Equestrian
FENCING	Fencing
FISHING	Fishing
FOOTBALL	Football
GOLF	Golf
GYMNASTICS	Gymnastics
HOCKEY	Hockey
ICE_HOCKEY	Ice Hockey
ICE_SKATING	Ice Skating
MOTOR_CYCLING	Motor Cycling
RUGBY	Rugby
RUNNING	Running
SKIING	Skiing

SQUASH	Squash
SURFING	Surfing
SWIMMING	Swimming
TENNIS	Tennis
UNCLASSIFIED	Unclassified
UNIDENTIFIED	Unidentified

7.39. gs1:Target Consumer Gender Code

GS1 Code List	gs1:TargetConsumerGenderCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
MALE	Suitable for males.
FEMALE	Suitable for females
UNISEX	Suitable for all sexes.

7.40. gs1:Upper Type Code

GS1 Code List	gs1:UpperTypeCode
GS1 Code List Version	R1
Managing Agency	GS1
Based on Code List	n/a
Type Of Management	n/a
Code Value	Code Definition
CLOSED_TOE_CLOSED_BACK_OPEN_INSTEP	Closed toe, closed back with open instep.
CLOSED_TOE_OPEN_BACK	Closed toe with open back.
CLOSED_TOE_STRAP_BACK	Closed toe with strap back.
FULLY_CLOSED	Fully closed
OPEN_TOE_FULLY_CLOSED_BACK	Open toe with fully closed back.
OPEN_TOE_OPEN_BACK	Open toe with open back.
OPEN_TOE_STRAP_BACK	Open toe with strap back.
UNCLASSIFIED	Unclassified.

8. Appendix

8.1. Outstanding Questions/Notes

The following are questions to consider while reviewing this document. This section is to be removed prior to approval and ratification of this document.

1. The vocabulary includes multiple properties for GTIN (e.g. GTIN8, GTIN12, GTIN13 and GTIN14) in line with both schema.org and GoodRelations. Should we limit the vocabulary to a single GTIN field (GTIN14) and provide guidelines for population?
2. The GS1 Vocabulary makes extensive use of GS1 code lists. While this can improve data quality by providing a list of applicable values, it can also be limiting especially in regards to regulatory markings that can be local in origin.
3. We have not provided code list values for country code and currency code as these are externally managed code lists. Should this document mandate the correct ISO code lists for these data types?
4. ColourCodeListCode and SizeCodeListCode do not use the numeric codes used in GDSN as these would not be intuitive to the end user. For example the ColourCodeListCode has a value of "PANTONE_HEXACHROME" instead of the GDD value "4". Since these are not equal to the GDD values, should these properties be removed from the vocabulary? There are descriptive fields for Colour and Size.

9. Summary of Changes

Change	SSD Version
<ul style="list-style-type: none"> Removed Organic Trade Item Code (Values not consumer friendly) Removed Material Agency Code and Material Code as values were not consumer friendly. Added Material Description. Deleted hasOrthopaedicBenefit as there were not enough codes to justify its own code list attributed. These can be treated as features. Removed Physiochemical Characteristics as this was not consumer facing. Added gs1:beverageVintage to Beverages. 	1.2
<ul style="list-style-type: none"> Added Nutrient Properties to FoodBeverageTobaccoTradeItem. Removed code list for PaymentTerms as codes were not intuitive and would have to be rewritten and then mapped back to GS1 codes. Removed code list for AdditionalClassificationAgencyCode as codes were neither intuitive nor unique and would have to be rewritten and then mapped back to GS1 codes. Removed AdditionalTradeItemIdentificationCode and AdditionalTradeItemPartyIdentificationCode as this information is usually represented on a single property not two for example ISBN:73631633839329. Removed Price Type Code List since there was not a suitable existing GS1 code list. PriceType is now a string. We can consider creating a code list in the future. Removed gs1:thing and referenced owl:thing. There is no reason to create a gs1 specific thing. Removed Contact/Website as this was redundant with URL inherited from Thing. 	1.3