Harmonized European attribute list for the DIY sector

Version 1.2

Introduction

To stimulate the use of the Global Data Synchronization Network (GDSN), the Data Excellence Group of GS1 in Europe initiated in 2014 an open working group to define a basic data set data specifically for the European Do-It-Yourself (DIY) sector. A harmonized European data model will facilitate efficient data exchange between DIY suppliers and retailers and improve data quality. The working group was comprised of representatives of European DIY companies and GS1 in Europe Member Organizations that (intend to) use, offer or support GDSN. The working group was structured as a platform under the umbrella of the GS1 in Europe Data Excellence Steering Committee and supported by GS1 Global. GS1 in Europe acknowledges the contributions made by the following persons and organizations that participated in the working group (alphabetical order):

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1 General data attributes

These data attributes provide general information on a supplier and the trade item.

1.1 GS1 address code (GLN) information provider

Definition	**Worldwide unique number that identifies the party providing the information about the trade item.**
Mandatory	Yes
Instruction	If you are using EDI, you should provide the GLN which is used in EDI messages. This GS1 data attribute contains 13 digits. The last should be a correct checkdigit using Modulo 10.
GDSN name	informationProvider
Example	8711115999906

1.2 Name of information provider

Definition	**Textual name of the party who owns the data. The name of the information provider of the trade item.**
Mandatory	Yes
Instruction	If you are using EDI, you should provide the name of the party that is responsible for the EDI messages.
GDSN name	nameOfInformationProvider
Example	United Tooling Inc.

1.3 GS1 Global Trade Item Number

Definition	**Worldwide unique number used to uniquely identify a trade item.**
Mandatory	Yes
Instruction	This data attribute contains 14 digits. If the GS1 item code (GTIN) consists of less than 14 digits, provide leading zeros to the value.
GDSN name	globalTradeItemNumber
Example	08711113105958

1.4 Target Market

Definition	**The code that identifies the country where a trade item is intended to be sold.**
Mandatory	Yes
Instruction	Select the correct value from the picklist. Picklist "Country".
GDSN name	targetMarketCountryCode
Example	528 (Netherlands)
Remark(s)	A number of data attributes from this data attributes list may have a different value, depending on the target market.

1.5 GPC Classification Code

Definition	**A code that identifies a category in the GPC product classification on the Brick level.**
Mandatory	Yes
Instruction	It is recommended to use the correct GPC code. If you cannot find a relevant code for your trade item, use the code 99999999. See the GPC browser for looking up the right GPC code. URL: http://www.gs1.org/1/productssolutions/gdsn/gpc/browser/index.html **ATTENTION:** this GPC browser does not work correctly with Internet Explorer™ 10. You should either use version 11, or version 9 and older. Also browsers like Chrome™ and Firefox™ do work properly.
GDSN name	classificationCategoryCode
Example	10003874 (paint for indoor and outdoor use for houses and buildings)

1.6 GPC Attribute type and value codes

Definition	**A pair of fields to further classify a trade item by an attribute type code and its attribute value code for this trade item where the attribute type code specifies the type of the Global Product Classification (GPC) attribute, for example 20001891 – Type of Axe.**
Mandatory	No, but if type is entered then also value is needed and the other way around. This pair of fields may occur *multiple times*.
Instruction	See the GPC browser for looking up the right GPC attribute type codes and their respective values at the GPC brick code you provided in 1.5 GPC Classification Code URL: http://www.gs1.org/1/productssolutions/gdsn/gpc/browser/index.html **ATTENTION:** this GPC browser does not work correctly with Internet Explorer™ 10. You should either use version 11, or version 9 and older. Also browsers like Chrome™ and Firefox™ do work properly.
GDSN name	eANUCCClassificationAttributeTypeCode & eANUCCClassificationAttributeValueCode
Example	For brick "Paint" (10003874) the attribute type "Finish": **20000976** and the value "Matt/Eggshell": **30013032**

1.7 Additional (national) Classification Code

Definition	**Any (national) alternative Classification scheme of an agency and the Classification code for this trade item according to that scheme.**
Mandatory	No
Instruction	If national rules or regulations require an alternative way of classification (e.g. a National Class Code) you may provide the agency responsible for that classification scheme and the classification code itself here. It is advised to use a picklist to ensure correct (national) classification codes.
GDSN name	additionalClassificationAgencyName & additionalClassificationCategoryCode
Example	5 (= UNSPSC) & 26121606 (Coaxial cable)

1.8 Effective date

Definition	The date on which the trade item data are valid and become effective.
Mandatory	Yes; for each modification (in order to be able to distinguish between different data versions).
Instruction	It is not allowed to enter a date value in the past. If this data attribute is not updated, the datapool fills the date with the date of receipt in the datapool.
GDSN name	effectiveDate
Example	2015-02-29 (YYYY-MM-DD)

1.9 Import classification

Definition	Code indicating the appropriate duties and tariffs of trade items for import and export.
Mandatory	No: For national trade Yes: For cross border trade
Instruction	It is advised to use a picklist to ensure correct (national) codes. In the case this attribute is used, also the attribute Import classification agency must be filled in.
GDSN name	ImportClassificationValue
Example	32089091

1.10 Import classification agency

Definition	Code indicating the type of import classification.
Mandatory	Yes if 1.9 Import classification is used No if 1.9 Import classification is not used (field should stay empty)
Instruction	It is advised to use a picklist to ensure correct (national) codes. In the case this attribute is used, also the attribute Import classification must be filled in.
GDSN name	importClassificationType
Example	INTRASTAT

1.11 Tax applicability code

Definition	Code indicating the rate for the collection of the tax on the trade item.
Mandatory	For trade items on which tax (such as VAT) is payable.
Instruction	Indicate the highest applicable rate for composed items. High / low / medium / zero / exempt
GDSN name	tradeItemTaxRate.taxApplicabilityCode
Example	High

1.12 Tax type code

Definition	Identification of the type of duty or tax or fee applicable to the trade item.
Mandatory	For trade items on which tax (such as VAT) is applicable.
Instruction	Select the correct code value from the picklist "Tax Type code".
GDSN name	tradeItemTaxRate.taxTypeCode
Example	For the Netherlands: BTW

1.13 Description of the tax type

Definition	Text indicating the tax type.
Mandatory	For trade items on which tax (such as VAT) is payable.
Instruction	Some datapools (such as GS1 Data Source) automatically generate a text with the description of that tax type for 'Tax type code'. Then this data attribute doesn't have to be completed. Consult your data pool. In all other cases select the correct description of the Tax Type Code from the picklist "Tax Type code".
GDSN name	tradeItemTaxRate.taxTypeDescription
Example	For Belgium: TVA

1.14 Tax agency code

Definition	Code indicating the authority that is responsible for the collection of the tax.
Mandatory	For trade items on which tax (such as VAT) is payable.
Instruction	Select the correct value from the picklist "Tax agency code".
GDSN name	tradeItemTaxRate.taxAgencyCode
Example	For Belgium: 056

1.15 Country of origin

Definition	Country where the item was produced.
Mandatory	No
Instruction	The designation of the country is according to the ISO code list for countries (ISO 3166-1).
GDSN name	countryOfOrigin
Example	CN (China)

1.16 Production facility name and address

Definition	The name and the address of a physical location consisting of one or more buildings with facilities for manufacturing.
Mandatory	No
Instruction	Consists of two fields: one for the name and one for the address data. This pair of fields can be entered multiple times.
GDSN name	productionFacilityContactName & productionFacilityContactAddress
Example	Star Fireworks Inc & Kowloon, Hong Kong

1.17 GS1 address code (GLN) brand owner

Definition	Unique location number identifying the brand owner. May or may not be the same entity as the information provider, which actually enters and maintains data in data pools.
Mandatory	No
Instruction	Only to be filled when the supplier is not the brand owner. This GS1 data attribute contains 13 digits. The last should be a correct checkdigit using Modulo 10.
GDSN name	brandOwnerGLN
Example	8714039932059

1.18 Name of manufacturer

Definition	Descriptive name of the manufacturer of the trade item.
Mandatory	No
Instruction	Only to be filled when the Brand Owner is not the manufacturer or party that produced the product. Free text field.
GDSN name	nameOfManufacturer
Example	Nuts and Bolts Inc.

1.19 GS1 address code (GLN) manufacturer

Definition	The identification of the manufacturer of the trade item.
Mandatory	No
Instruction	Only to be filled when the Brand Owner is not the manufacturer or party that produced the product. This GS1 data attribute contains 13 digits. The last should be a correct checkdigit using Modulo 10.
GDSN name	Manufacturer
Example	8714039932059

1.20 Date of discontinuation

Definition	The date on which the trade item is no longer to be produced.
Mandatory	Fill in when the trade item is permanently removed from the mutually agreed trade item assortment.
Instruction	It is only allowed to enter a data value in the future. This date is not allowed to be before the Start availability date. After this date the master data of the product will not be synchronized anymore. The GS1 item number (GTIN) can only be reused at the earliest 48 months after this date.
GDSN name	discontinuedDate
Example	2015-12-31 (YYYY-MM-DD)

1.21 GS1 item number (GTIN) child item level

Definition	Unique product identification number (GTIN) for a child item with a higher-level trade item (parent) in a product hierarchy. This item may repeat in the case of a combination pack (multiple GTINs in lower level).
Mandatory	No
Instruction	This field consists of 14 digits. If the GS1 article code (GTIN) contains less than 14 digits, fill this value with leading zeros. This field may be entered multiple times.
GDSN name	childTradeItem
Example	08711433556812

1.22 Quantity of next lower level trade item

Definition	The number of child items contained in a trade item.
Mandatory	No
Instruction	The quantity of direct child links must equal the Qty of Next Level Item(s) of the Parent Item. This field may be entered multiple times.
GDSN name	QuantityOfNextLevelTradeItem
Example	6

1.23 Canceled date

Definition	Communicates cancellation of the launch of a trade item that was never and will never be manufactured, but may have been presented to buyers. Allows the reuse of the GTIN 12 months after cancellation .
Mandatory	No
Instruction	For this date, the supplier does not have to take into account a pre announcement period. De GS1trade item code (GTIN) can only be reused at the earliest 12 months after this date.
GDSN name	canceledDate
Example	2015-05-01 (YYYY-MM-DD)

1.24 Replacement GTIN

Definition	The GS1 article code (GTIN) of the trade item that replaces this trade item.
Mandatory	No
Instruction	This field consists of 14 digits. If the GS1 article code (GTIN) contains less than 14 digits, fill this value with leading zeros. The replacement GTIN must already be published. Synonym with "Substituted Trade Item"
GDSN name	replacedbyTradeItemIdentification
Example	08711123456789

2 Article Descriptions

These data attributes express in words what type of trade item it concerns.

2.1 Trade item description

Definition	Text describing the trade item or service.
Mandatory	No
Instruction	You can fill this data attribute with the attributes 'Brand name', 'Subbrand', 'Functional trade item name' and 'Version'. If you think this description is unsuitable, you can fill this data attribute with the correct description, maximum 178 characters. See corresponding instruction for the use of languages in par. **2.6 Language code**.
GDSN name	tradeItemDescription
Example	nl:FLEXA CREATIONS WALL PAINT EXTRA MATTE WHITE MORNING SNOW 1 LTR

2.2 Brand name

Definition	Text describing the recognizable name used by a brand owner to uniquely identify a line of trade items or services. This is recognizable by the consumer.
Mandatory	Yes
Instruction	It is important to always spell the brand name in the exact same way. Fill in "UNBRANDED" for trade items and combination packages without a brand name. This field is language independent (the same for every target market).
GDSN name	brandName
Example	FLEXA

2.3 Sub-brand

Definition	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.
Mandatory	No
Instruction	A sub-brand is visible on the trade item and/or the packaging. This data attribute can be completed in multiple languages. See corresponding instruction for the use of languages in par. **2.6 Language code**.
GDSN name	subBrand
Example	CREATIONS

2.4 Functional name

Definition	Text describing the use of the product or service by the consumer. Should help clarify the product classification associated with the GTIN.
Mandatory	Yes
Instruction	Use maximally 35 positions and be as concrete as possible. Describes the use of the trade item and provides an answer to the question 'What is it?' A certain functional trade item name will often be used by multiple suppliers. See corresponding instruction for the use of languages in par. **2.6 Language code**.
GDSN name	functionalName
Example	nl:WALL PAINT

2.5 Variant

Definition	Text used describing the 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 flavour, fragrance, taste.
Mandatory	When there are different versions of the same type of trade item.
Instruction	Use maximum 35 positions. Repeat this data attribute for a longer text or more version properties. See corresponding instruction for the use of languages in par. **2.6 Language code**.
GDSN name	Variant
Example	uk:WATER-BASED, COVERING, INDOOR

2.6 Language code

Definition	Code indicating the language in which the data attribute is specified.
Mandatory	Yes
Instruction	Used to further define the language in which attributes are put. Needed above target market since a couple of countries are multilingual. It is advised to use a picklist to ensure correct (national) codes.
GDSN	Not Applicable (Stored in the respective free text fields that allow multiple languages)
Example	nl

2.6.1 Examples

Brand	Sub Brand	Functional Name	Variant	Content	UOM
Bison		uk:PVC Adhesive	uk:Hard	250	millilitre
Brabantia		uk:Pedal Bin	uk:Plastic Indoor Bin White 3 l	1	piece
Etna	uk:Trendline	uk:Cooker Hood	uk:Chimney Style 60cm Stainless steel	1	piece
Flexa	uk:Creations	uk:Emulsion Paint	uk:Extra Matt Havana 3550 Medium Yellow	0,75	litre
Jan de Bouvrie		uk:Roller Blind	uk:Uni Black (1910) W 1100 mm H 1900 mm	1	piece
Natura		nl:Potgrond	nl:Grondgarant	20	litre
Rambo		uk:Outdoor Stain	uk:4000 Light Green	2,5	litre

Brand	Sub Brand	Functional Name	Variant	Content	UOM
Sealskin		uk:Shower Curtain Rod	uk:SEALLUX White 80-130 CM	1	piece
WOOOD	uk:Duo	uk:Dining Table	uk:Oak-Pine White 150 x 85	1	piece
Arne&Bodil		uk:Inside door	uk:ABB64 Left 630x2015 mm	1	piece
Cetabever		uk:Indoor stain	uk:TRANSPARANT ACRYL	0,75	litre

2.7 Colour code

Definition	A code required to identify the colour of the trade item. No ISO standards exist. Each industry needs to determine which code agency it will use.
Mandatory	No
Instruction	Select the correct colour code and agency fields from the picklist "colorCodeListAgency".
Format	2 times 40 characters; text
GDSN name	colorCodeValue & colorCodeListAgency
Example	Green & GS1

2.8 Colour Description

Definition	Text describing the colour of the trade item.
Mandatory	Yes if Colour Code is entered.
Instruction	Free text field to further define the colour as mentioned in 2.7 Colour code The description of the colour should be in the proper language as defined in 2.6 Language code.
Format	70 characters; text
GDSN name	productColorDescription
Example	nl:Lichtgroen

2.9 Size code

Definition	Since no ISO standards exist for a size code each industry needs to determine which code agency it will use. Up till then a free text field is provided here.
Mandatory	No
Instruction	Free text language independent.
Format	50 characters
GDSN name	SizeCodeValue
Example	*Used in industries such as Shoes:* **12 1/2 Medium** *or Apparel:* **32/36**

2.10 Size Description

Definition	A free form alphanumeric size factor the brand owner wishes to communicate to the consumer.
Mandatory	No
Instruction	IE: Jumbo, Capri, Full Length, Maxi, 4x50g The description of the size should be in the language as defined in 2.6 Language code.
Format	35 characters; description text
GDSN Name	descriptiveSize
Example	UK:Jumbo

2.11 Short Product Description

Definition	The commercial description of the product, containing the most important attributes.
Mandatory	Yes
Instruction	The first character of the value must be in upper case, with the remaining characters in lower case in maximum 35 positions. Do not use abbreviations. See corresponding instruction for the use of languages in par. 2.6 Language code.
GDSN name	descriptionShort
Example	nl:Krachtige elektrische grasmaaier.

2.12 Additional Characteristics/Marketing name

Definition	Marketing message associated to the Trade item.
Mandatory	No
Instruction	The first character of the value must be in upper case, with the remaining characters in lower case. Do not use abbreviations. See corresponding instruction for the use of languages in par. 2.6 Language code.
GDSN name	tradeItemMarketingMessage & tradeItemMarketingMessage.language
Example	Efficient and low on energy & uk

2.13 Barcode Type

Definition	Indication if the trade item is physically bar-coded with the primary trade item identification number.
Mandatory	No
Instruction	Select the correct value from the picklist "Barcode Type". Since more than one symbol may be attached to the trade item this field can be entered **multiple times**.
GDSN name	barcodeType
Example	EAN_UCC_13_SYMBOL

2.14 Label Description

Definition	A literal reproduction of the text featured on a product's label in the same word-by-word order in which it appears on the front of the product's packaging. This may not necessarily match the GTIN description as loaded by the supplier into the GTIN description field in GDSN. Allows for the representation of the same value in different languages but not for multiple values.
Mandatory	No
Instruction	Free text field of up to 255 characters. See corresponding instruction for the use of languages in par. 2.6 Language code.
GDSN name	labelDescription
Example	uk:Swing Rope 5 m. Only to be used in combination with Jungle Gym accessories. For usage on single-family residential swingsets only. Public installations of public dominion is clearly a misuse of this product.

3 Order information

The data attributes provide information relevant to the ordering process.

3.1 Indicator base unit

Definition	Code indicating the trade item as the base unit level of the trade item hierarchy.
Mandatory	Yes
Instruction	Valid values are True or False.
GDSN name	isTradeItemABaseUnit

3.2 Indicator consumer unit

Definition	An indicator identifying whether the current hierarchy level of a trade item is intended to be scanned at point of sale (consumer unit).
Mandatory	Yes
Instruction	Consumer units may also appear in a hierarchy, for instance, in case of composite items. In that case you provide the value True for the units that are considered to be consumer units. Valid values are True or False.
GDSN name	isTradeItemAConsumerUnit

3.3 Indicator orderable unit

Definition	An indicator identifying that the information provider considers this trade item to be at a hierarchy level where they will accept orders from customers.
Mandatory	Yes
Instruction	This information is not generic for the industry and may be filled in differently for each buyer. Valid values are True or False.
GDSN name	isTradeItemAOrderableUnit

3.4 Indicator despatch unit

Definition	An indicator identifying that the information provider considers the trade item as a despatch (shipping) unit.
Mandatory	Yes
Instruction	This information is not generic for the industry and may be filled in differently for each buyer. Valid values are True or False.
GDSN name	isTradeItemADespatchUnit

3.5 Indicator invoice unit

Definition	An indicator identifying that the information provider will include this trade item on their billing or invoice.
Mandatory	Yes
Instruction	This information is not generic for the industry and may be filled in differently for each buyer. Valid values are True or False.
GDSN name	isTradeItemAnInvoiceUnit

3.6 Indicator display unit

Definition	An indicator identifying whether or not a trade item is or could be used as a display unit. A display unit is intended to be shipped to a store without being split at a distribution centre or similar party and is intended to be displayed in a retail store either on a shelf or on the shop floor.
Mandatory	No
Instruction	This information is not generic for the industry and may be filled in differently for each buyer. Valid values are True or False.
GDSN name	isTradeItemADisplayUnit

3.7 Indicator base price declaration relevant

Definition	An indicator whether this item is mandated to have price comparison information included according to country specific pricing directives.
Mandatory	No
Instruction	This information is not generic for the industry and may be filled in differently for each buyer. Valid values are True or False.
GDSN name	isBasePriceDeclarationRelevant

3.8 Indicator non sold trade item returnable

Definition	Indicates that the buyer can return the articles that are not sold. Used, for example; with magazines and bread. This is a y/n (Boolean) where y equals right of return. This is at least relevant to General Merchandise, Publishing industries and for some FMCG trade item.
Mandatory	No
Instruction	This information is not generic for the industry and may be filled in differently for each buyer. Valid values are True or False.
GDSN name	isNonSoldTradeItemReturnable

3.9 Indicator dangerous substance

Definition	An indicator whether or not a trade item is classified and labelled as containing a dangerous substance.
Mandatory	Yes
Instruction	This information is not generic for the industry and may be filled in differently for each buyer. Valid values are True or False.
GDSN name	isDangerousSubstance

3.10 Price Comparison Measure

Definition	The quantity of the product at usage. Applicable for concentrated products and products where the comparison price is calculated based on a measurement other than netContent.
Mandatory	This field is dependent on the population of 3.7 Indicator base price declaration relevant and is required when that field is "Yes"
Instruction	A decimal field with max 5 decimal positions. It is used to indicate if for this trade item a price comparision is made possible on the label e.g. on a package of floaring boards, an indication of the price per square meter.
GDSN name	priceComparisonMeasurement
Example	1

3.11 Price Comparison Measure Unit of Measure

Definition	The unit of measurement for the quantity of the product at usage. Applicable for concentrated products and products where the comparison price is calculated based on a measurement other than netContent.
Mandatory	This field is dependent on the population of 3.7 Indicator base price declaration relevant and is required when that field is "Yes"
Instruction	Only the measuring units CM (Centimetre), MM (Millimetre), KG (Kilogram), GR (Gram), LT (Litre), ML (Millilitre), SM (Square Meter) en PC (Peace) are allowed.
GDSN name	priceComparisonMeasurement.unitOfMeasure
Example	SM

3.12 Start date availability

Definition	The date from which the trade item becomes available from the supplier to be ordered.
Mandatory	Yes
Instruction	In case of seasonal trade items, this data attribute needs to be updated as soon as the trade item is available again. It is allowed to enter a data value in the past and in the future. The time portion is not used.
GDSN name	startAvailabillityDateTime
Example	2015-02-28 (YYYY-MM-DD)

3.13 End date availability

Definition	The date from which the trade item is no longer available from the information provider to be ordered.
Mandatory	If a trade item is (temporarily) unavailable.
Instruction	In case of seasonal trade items, complete this data attribute when the season ends. The data attribute should be emptied as soon as the trade item is available again. It is only allowed to enter a data value in the future. This date is not allowed to be before Start availability date (par. 3.6).
GDSN name	endAvailabillityDateTime
Example	2016-11-01 (YYYY-MM-DD)

3.14 Minimum trade item life span from production

Definition	The period of days, guaranteed by the manufacturer, before the expiration date of the product, based on the production.
Mandatory	No
Instruction	Enter the number of days.
GDSN name	minimumTradeItemLifeSpanFromTimeOfProduction
Example	60

3.15 Minimum trade item life span from arrival

Definition	The period of days, guaranteed by the manufacturer, before the expiration date of the trade item, based on arrival to a mutually agreed point in the buyers distribution system.
Mandatory	No
Instruction	Enter the number of days. Can be repeatable upon use of GLN.
GDSN name	minimumTradeItemLifeSpanFromTimeOfArrival
Example	45

3.16 Minimal order quantity

Definition	Number indicating an agreed to minimum quantity of the trade item that can be ordered.
Mandatory	Only fill in when 3.3 Indicator orderable unit is True..
Instruction	This information is not generic for the industry and may be filled for each buyer.
GDSN name	orderQuantityMinimum
Example	60

3.17 Order quantity multiple

Definition	Number indicating the order quantity multiples in which the trade item may be ordered.
Mandatory	Provide the data of this attribute only when 3.16 Minimal order quantity is provided.
Instruction	This information is not generic for the industry and may be filled in differently for each buyer.
GDSN name	orderQuantityMultiple
Example	30 (the order quantity increases by steps of 30, taking account of the minimum order quantity, for instance 60).

3.18 Producttype

Definition	Text describing the hierarchical level of the trade item (i.e. base unit, case, pallet).
Mandatory	Yes
Instruction	This field is also known as Trade Item Unit Descriptor and can be selected from the picklist "Producttype".
GDSN name	tradeItemUnitDescriptor
Example	BASE_UNIT_OR_EACH
Remarks	Depending on the fact if this item has a parent or children, the referenced trade item is limited as far as this field is concerned.

3.19 Alternate trade item identification value

Definition	Alternative information to the GTIN to identify a trade item, for instance, the item number of the supplier.
Mandatory	No
Instruction	The GS1 item number (GTIN) always predominates in the identification. If this data attribute is being provided, you also should provide the data attribute 3.20 Alternate trade item identification agency This pair of fields can occur multiple times, each time with a different agency.
GDSN name	additionalTradeItemIdentificationValue
Example	5135317

3.20 Alternate trade item identification agency

Definition	Code indicating the type of the identification system that is being used as an alternative to the GTIN.
Mandatory	No
Instruction	This data attribute may only be entered if the data attribute 3.19 Alternate trade item identification value is entered and must be different for every occurrence.
GDSN name	additionalTradeItemIdentificationType
Example	SUPPLIER_ASSIGNED = 90

3.21 Delivery Time to DIY Store

Definition	Number indicating the period of time in working days between ordering and delivery to the DIY store for orderable trade items.
Mandatory	No
Instruction	Enter the delivery time in working days as an integer, i.e. without decimals.
GDSN name	orderingLeadTime
Example	10

4 Dimensions and weights

These data attributes provide information on the dimensions and the weight of the trade item. Based on experiences the measuring and weighing of items requires special attention. This chapter contains basic definitions and instructions. The document 'Measuring of items, practical description of the most common measuring instructions' extensively explains the measuring and also covers the international measuring guidelines.

4.1 Depth

Definition	Number indicating the dimension from the front to the back of the trade item, including the packaging.
Mandatory	Yes
Instruction	This data attribute can be indicated in multiple measuring units as a decimal with max. 5 decimal positions. See par. **4.15 Unit of Measure code for Dimensions**
GDSN name	TradeItemMeasurements.depth
Example	109

4.2 Height

Definition	Number indicating the vertical dimension, from the lowest (bottom) point to the highest (top) point of the trade item, including the packaging.
Mandatory	Yes
Instruction	This data attribute can be indicated in multiple measuring units as a decimal with max. 5 decimal positions. See par. **4.15 Unit of Measure code for Dimensions**
GDSN name	TradeItemMeasurements.height
Example	132

4.3 Width

Definition	Number indicating the horizontal dimension, from the leftmost point to the rightmost point of the trade item, including the packaging.
Mandatory	Yes
Instruction	This data attribute can be indicated in multiple measuring units as a decimal with max. 5 decimal positions. See par. **4.15 Unit of Measure code for Dimensions**
GDSN name	TradeItemMeasurements.width
Example	109

4.4 Gross weight

Definition	**Number indicating the weight of the trade item, including the weight of the packaging.**
Mandatory	Yes
Instruction	This data attribute can be indicated in multiple measuring units as a decimal with max. 5 decimal positions. See par. **4.16 Unit of Measure code for Weights**.
GDSN name	TradeItemMeasurements.grossWeight
Example	2.750

4.5 Net Weight

Definition	**Number indicating the weight of the trade item, without the weight of all packaging material.**
Mandatory	No
Instruction	Enter the value as a decimal with max. 5 decimal positions See par. **4.16 Unit of Measure code for Weights**.
GDSN name	TradeItemMeasurements.netWeight
Example	2.450

4.6 Net content

Definition	**Number indicating the content of the trade item, usually as claimed on the label of the trade item. If there is no number on the label, the number of pieces should be used. If the article is a multi-pack, the total net content is entered. If the article has a variable weight, the mean of the weights should be used.**
Mandatory	Yes
Instruction	- The value as it is stated on the packaging as a decimal with max. 5 decimal positions. - Indicate the total content in case of a multi-pack (i.e. net content on product indicates 7 x 3 pieces, net content attribute should have the value of 21 (pieces)). - Indicate the average content in case of variable items. - Indicate the real content in case the content is not indicated on the product but is clearly recognizable. - Indicate 'pieces' in case multiple different values for content is stated on the packaging. - Indicate 'pieces' in case the content is not indicated on the product and is not clearly recognizable. - Indicate the lower value in case of a range (i.e. 40-50 m² results in entering the value 40 for this attribute). See par. **4.17 Unit of Measure code for Net Content** for the instruction.
GDSN name	TradeItemMeasurements.netContent
Example	2.5

4.7 Net volume

Definition	**The cubic space occupied by the product excluding the packaging. This is measured as the smallest theoretical space the product will fit into.**
Mandatory	No

Instruction	- The value as a decimal with max. 5 decimal positions.
	- For example:
	  · Liquid – a 12 fluid ounce soda has a product volume of 12 fluid ounces or 21.7 cubic inches within the can.
	  · Solids by count- a 50cl bottle of tablets (where 1000 tablets require 1000 cubic centimetre) has a product volume of 50 cubic centimetres or 3.1cubic inches,
	  · Solids by weight-a 5kg bag of sugar (with a bulk density of .849 g/cubic centimetres has a product volume of 5.889 cubic centimetres or 359.4 cubic inches.
	See par. **4.17 Unit of Measure code for Net Content** for the instruction.

GDSN name	usableProductVolume
Example	2.5

4.8 Peg hole number

Definition	**Number indicating the number of the peg hole for which peg hole dimensions are specified.**
Mandatory	When the packaging/unit contains more than 1 peg hole.
Instruction	Peg holes should be numbered from the upper left corner of the front of the package to the bottom right corner. This triplet of fields (Number, Horizontal And Vertical) may occur **multiple times**.
GDSN name	pegHoleNumber
Example	1

4.9 Horizontal peg hole distance

Definition	**Number indicating the horizontal distance from the left edge of the trade item to the centre of the peg hole.**
Mandatory	When the corresponding field 4.8 Peg hole number .is entered.
Instruction	This data attribute can be entered as a decimal with max. 5 decimal positions multiple times. See par. **4.15 Unit of Measure code for** Dimensions.
GDSN name	pegHorizontal
Example	30.5

4.10 Vertical peg hole distance

Definition	**Number indicating the vertical distance of a peg hole, measured from the bottom of the item to the upper side of the peg hole.**
Mandatory	When the corresponding field **4.8 Peg hole number** is entered.
Instruction	This data attribute can be entered as a decimal with max. 5 decimal positions **multiple times**. See par. **4.15 Unit of Measure code for** Dimensions.
GDSN name	pegVertical
Example	20.9

4.11 Nesting increment height

Definition	Indicates the incremental height of trade items nested together.
Mandatory	No
Instruction	Enter the value as a decimal with max. 5 decimal positions. See par. 4.15 Unit of Measure code for Dimensions.
GDSN name	nestingIncrement
Example	1.3

4.12 Stacking Factor

Definition	A factor that determines the maximum stacking for the product. Indicates the number of levels the product may be stacked/placed on top of each other during storage.
Mandatory	No
Instruction	Enter the value as an integer, i.e. without decimals.
GDSN name	stackingFactor
Example	4

4.13 Indicator Variable unit

Definition	Indicates that an article is not a fixed quantity, but that the quantity is variable in weight, dimension or volume.
Mandatory	Yes
Instruction	In the do-it-yourself industry in the Netherlands the value of this data attribute is always populated with "False". Elsewhere valid values are True or False.
GDSN name	isTradeItemAVariableUnit

4.14 Variable trade item type

Definition	Indicator to show whether product is loose or pre-packed.
Mandatory	No
Instruction	Valid values are "LOOSE" or "PRE_PACKED"
GDSN name	variableTradeItemType

4.15 Unit of Measure code for Dimensions

Definition	Code to indicate the unit, in which the data attributes Depth, Height, Width (both out and in package) and Peg hole distances are specified.
Mandatory	Yes
Instruction	Only the measuring units CM (centimetre) and MM (millimetre) are allowed. Provide the same unit for the value of the data attributes Depth, Height and Width. This is also valid for the data attributes Horizontal peg hole distance and Vertical peg hole distance.

4.16 Unit of Measure code for Weights

Definition	Code to indicate the unit, in which the data attribute Gross Weight and Net Weight and Battery Weight are specified.
Mandatory	Yes
Instruction	Only the units KG (kilogram) and GR (gram) are allowed. Provide the same unit for the value of the data attributes Gross and Net Weight and Battery Weight.

4.17 Unit of Measure code for Net Content and Volume

Definition	Code to indicate the measuring unit, in which the data attributes Net Content and Net Volume are specified.
Mandatory	Yes
Instruction	Only the measuring units CM (Centimetre), MM (Millimetre), KG (Kilogram), GR(Gram), LT (Litre), ML (Millilitre), SM (Square Meter) en PC (Peace) are allowed. Provide the same unit for the value of the data attributes Net Content and Net Volume.

5 Packaging information

The following data attributes provide information on packaging.

5.1 Packaging type

Definition	Code to identify the type of package used as a container of the trade item.
Mandatory	Yes
Instruction	There are 39 types, 20 commonly used packaging types are listed below. Using a picklist is recommended.
GDSN name	packagingTypeCode
Example:	CAN

Name	Code	Explanation
Bottle	BOT	A container having a round neck of relatively smaller diameter than the body and an opening capable of holding a closure for retention of the contents.
Tube	TBE	A cylindrical container sealed on one end that could be closed with a cap or dispenser on the other end.
Can	CAN	A metallic and generally cylindrical container of unspecified size which can be used for items of consumer and institutional sizes.
Atomiser	AT	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. Usually air is provided by squeezing a rubber bulb attached to the atomizer.
Aerosol	AE	A gas-tight, pressure-resistant container with a valve and propellant. When the valve is opened, propellant forces the product from the container in a fine or coarse spray pattern or stream.
Bucket	BXT	A container, usually cylindrical, can be equipped with a lid and a handle.
Container	CTN	A non-specific term for a re-closable container used mostly for perishable Foods.
Standing pouch	PO	A preformed, flexible container, generally enclosed with a gusset seal at the bottom of the pack can be shaped/arranged to allow the pack to stand on shelf.
Shrink wrap	SRW	In packaging, a plastic film around an item or group of items which is heated causing the film to shrink, securing the unit integrity. The use of shrunken film to tightly wrap a package or a unit load in order to bind, protect and immobilize it for further handling or shipping.
Bag	BAG	A preformed, flexible container, generally enclosed on all but one side, which forms an opening that may or may not be sealed after filling.
Card	CG	A flat package to which the product is hung or attached for display.
Envelope	ENV	A predominantly flat container of flexible material having only two faces, and joined at three edges to form an enclosure. The non-joined edge provides a filling opening, which may later be closed by a gummed or adhesive flap, heat seal, tie string, metal clasp, or other methods.
Multipack	MPE	A bundle of consumer trade items which are packed as one package. A multipack is always a consumer unit.

Name	Code	Explanation
Blister Pack	BME	A type of packaging in which the item is secured between a preformed (usually transparent plastic) dome or 'bubble' and a paperboard surface or 'carrier'. Attachment may be by stapling, heat-sealing, gluing, or other means. In other instances, the blister folds over the product in clam-shell fashion to form an enclosing container. Blisters are most usually thermoformed from polyvinyl chloride; however, almost any thermoplastic can be thermoformed into a blister.
Sleeve	SLV	A non-rigid container usually made of paper, cardboard or plastic, that is open-ended and is slid over the contents for protection or presentation.
Box	BOX	A non-specific term used to refer to a rigid, three-dimensional container with closed faces that completely enclose its contents and may be made out of any material. Even though some boxes might be reused or become resealed they could also be disposable depending on the product hierarchy.
Reel	REL	A spool on which thread, wire, film, etc, is wound. Any device on which a material may be wound. Usually has flanged ends and is used for shipping or processing purposes.
Unpacked	UNP	The item is provided without packaging.
Packed	PCK	Not otherwise specified.

5.2 Indicator returnable packaging item

Definition	Indicator identifying that this item is a returnable and reusable packaging or load-bearing item.
Mandatory	Yes
Instruction	A "True" means that the packaging is returnable. Valid values are True or False
GDSN name	isPackagingMarkedReturnable

5.3 Packaging Marked Expiration Date Type

Definition	Indicates the type of date marked on the packaging for example Best Before Date.
Mandatory	No
Instruction	Select the correct value from the picklist "Packaging Marked Expiration". Since more than one symbol may be attached to the trade item this field can be entered **multiple times**.
GDSN name	packagingMarkedExpirationDateType
Example	EXPIRY_DATE

5.4 Pallet Type Code

Definition	Indicates whether the described despatch unit is delivered on a pallet/platform and the type of pallet/platform.
Mandatory	If the despatch unit is delivered on a pallet/platform, the pallet type must be given here.
Instruction	Select the correct value from the picklist "Pallet Type Code". Currently code values 1 through 50 exist.
GDSN name	palletTypeCode
Example	22 *(meaning "CHEP Pallet 40 X 60 cm")*

5.5 Pallet Terms and Conditions

Definition	**Indicates if the pallet in the prescribed pallet configuration is rented,exchangeable, against deposit or one way (not reusable).**
Mandatory	If **5.4 Pallet Type Code** is entered this field is mandatory.
Instruction	Select the correct value from the picklist "Pallet Terms and Conditions". Currently code values 1 through 7 exist.
GDSN name	palletTermsAndConditions
Example	3 (*meaning "Return Pallets"*)

5.6 Quantity of Trade Items per Pallet

Definition	**The number of trade items contained in a pallet. Only used if the pallet has no GTIN. It indicates the number of trade items placed on a pallet according to supplier or retailer preferences.**
Mandatory	If **5.4 Pallet Type Code** is entered this field is mandatory.
Instruction	Integer value
GDSN name	quantityOfTradeItemsPerPallet
Example	30

5.7 Quantity of Layers per Pallet

Definition	**The number of layers that a pallet contains. Only used if the pallet has no GTIN. It indicates the number of layers that a pallet contains, according to supplier or retailer preferences.**
Mandatory	If 5.4 Pallet Type Code is entered this field is mandatory.
Instruction	Integer value
GDSN name	quantityOfLayersPerPallet
Example	30

5.8 Transport Stacking Factor

Definition	**Indicates the supply chain process of transport during which a particular product may be stacked in.**
Mandatory	No
Instruction	Enter the value as an integer, i.e. without decimals.
GDSN name	transportStackingFactor
Example	4
Remark	From a supply chain perspective these values can differ from a storage or transport perspective. If a retailer is shipping between warehouses or store, they need the information to support their supply chain. For example a truck can only be stack 2 pallets high, but in a warehouse that can be 3 pallets.

5.9 Logistics Unit Stacking Factor

Definition	**The stacking factor of both the unit load (content) and the platform upon which the goods are carried, if there is one. A stacking factor determines the maximum stacking for the product. Indicates the number of levels the product may be stacked.**
Mandatory	No
Instruction	Enter the value as an integer, i.e. without decimals.
GDSN name	logisticsUnitStackingFactor
Example	20

5.10 Gross Weight (Case level)

Definition	**The weight of both the unit load (content) and the platform upon which the goods are carried if there is one.**
Mandatory	Mandatory if **5.4 Pallet Type Code** is entered.
Instruction	Enter the value as a decimal with max. 5 decimal positions. See par. **4.16 Unit of Measure code for Weights** for the instruction.
GDSN name	logisticsUnitWeightAndDimension.grossWeight
Example	2.450

5.11 Depth (Case Level)

Definition	**The depth of the unit load, as measured according to the GS1 Package Measurement Rules, including the shipping platform.**
Mandatory	Mandatory if **5.4 Pallet Type Code** is entered.
Instruction	This data attribute can be indicated in multiple measuring units as a decimal with max. 5 decimal positions. See par. **4.15 Unit of Measure code for** Dimensions for the instruction.
GDSN name	logisticsUnitWeightAndDimension.depth
Example	900 (mm)

5.12 Height (Case Level)

Definition	**The height of the unit load, as measured according to the GS1 Package Measurement Rules, including the shipping platform.**
Mandatory	Mandatory if **5.4 Pallet Type Code** is entered.
Instruction	This data attribute can be indicated in multiple measuring units as a decimal with max. 5 decimal positions. See par. **4.15 Unit of Measure code for** Dimensions for the instruction.
GDSN name	logisticsUnitWeightAndDimension.height
Example	900 (mm)

5.13 Width (Case Level)

Definition	The width of the unit load, as measured according to the GS1 Package Measurement Rules, including the shipping platform.
Mandatory	Mandatory if 5.4 Pallet Type Code is entered.
Instruction	This data attribute can be indicated in multiple measuring units as a decimal with max. 5 decimal positions. See par. 4.15 Unit of Measure code for Dimensions for the instruction.
GDSN name	logisticsUnitWeightAndDimension.width
Example	640 (mm)

5.14 Handling Instructions Code

Definition	Defines the information and processes needed to safely handle the trade item.
Mandatory	No
Instruction	Select the correct value from the picklist "Handling Instructions". Since more than one instruction may be applicable for the trade item this field can be entered **multiple times**.
GDSN name	handlingInstructionsCode
Example	HWC *(meaning "Handle with care")*

5.15 Storage Handling Temperature Minimum

Definition	The minimum temperature that a trade item can be held below defined by the manufacturer without affecting product safety or quality.
Mandatory	No
Instruction	Numeric field with maximum 5 decimal positions always expressed in Centigrades.
GDSN name	storageHandlingTemperatureMinimum
Example	-5.5

5.16 Storage Handling Temperature Maximum

Definition	The maximum temperature that a trade item can be held below defined by the manufacturer without affecting product safety or quality.
Mandatory	No
Instruction	Numeric field with maximum 5 decimal positions always expressed in Centigrades.
GDSN name	storageHandlingTemperatureMaximum
Example	+2

5.17 Package Deposit Code

Definition	In some markets the deposit information is specified by a GTIN giving the type of returnable package on which a deposit is charged.
Mandatory	No and only allowed if 5.2 Indicator returnable packaging item = true.
Instruction	Select the correct value from the picklist "Package Deposit".
GDSN name	returnablePackageDepositCode
Example	

5.18 Quantity of Returnable assets contained

Definition	The number of returnable assets contained that are allocated to the full returnable item identified by the GTIN of the returnable asset. An example would be 6 bottles of beer in a six pack (Trade Item).
Mandatory	No
Instruction	Integer value
GDSN name	returnableAssetsContainedQuantity
Example	6

6 Additional information

The following data attributes provide other relevant information.

6.1 Indicator Batteries Included

Definition	Code indicating whether batteries are included with the trade item.
Mandatory	No
Instruction	Valid values are True or False.
GDSN name	areBatteriesIncluded

6.2 Indicator Batteries Required

Definition	Code indicating whether batteries are required to operate the trade item.
Mandatory	No
Instruction	Valid values are True or False.
GDSN name	areBatteriesRequired

6.3 Indicator Batteries Built-in

Definition	Code indicating whether batteries are built-in for this trade item.
Mandatory	Only allowed if 6.1 Indicator Batteries Included is True.
Instruction	Valid values are True or False.
GDSN name	areBatteriesBuiltIn

6.4 Battery Weight

Definition	The weight of each battery included with or built into the trade item.
Mandatory	Only allowed if 6.3 Indicator Batteries Built-in is True.
Instruction	This data attribute can be indicated as a decimal with max. 5 decimal digits. See par. 4.16 Unit of Measure code for Weights for the instruction. This field is part of a repeating group of attributes that can be entered **multiple times**. The group consists of technology type, type, number and weigth with measurement. If one of these fields is entered, all of the other fields need to be entered as well.
GDSN name	batteryWeight
Example	28.222

6.5 Battery Technology Type

Definition	Code indicating the type of battery/batteries needed to make the trade item operational.
Mandatory	Only allowed if 6.2 Indicator Batteries Required or 6.1 Indicator Batteries Included is True.
Instruction	Select the correct value from the picklist "Battery Technology Type". This field is part of a repeating group of attributes that can be entered multiple times. The group consists of technology type, type, number and weigth with measurement. If one of these fields is entered, all of the other fields need to be entered as well.
GDSN Name	batteryTechnologyType
Example	NICKEL_CADMIUM

6.6 Battery Type

Definition	Text describing the type and quantity of battery/batteries needed to make the trade item operational.
Mandatory	Only allowed if 6.2 Indicator Batteries Required is True.
Instruction	Select value from picklist "Battery type". This field is part of a repeating group of attributes that can be entered multiple times. The group consists of technology type, type, number and weigth with measurement. If one of these fields is entered, all of the other fields need to be entered as well.
GDSN Name	batteryType
Example	AAA

6.7 Number of batteries required

Definition	Text describing the type and quantity of battery/batteries needed to make the trade item operational.
Mandatory	Only allowed if 6.2 Indicator Batteries Required is True.
Instruction	Quantity in digits. This field is part of a repeating group of attributes that can be entered multiple times. The group consists of technology type, type, number and weigth with measurement. If one of these fields is entered, all of the other fields need to be entered as well.
Format	Integer
GDSN Name	quantityOfBatteriesRequired
Example	5

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