



ETIM

International

The international classification
standard for technical products



ETIM xChange 1.1

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Table of Contents

Table of Contents	2
1. Introduction	5
2. Format	6
2.1. JSON.....	6
2.2. Data types (general)	6
2.3. Data types (pre-defined specific definitions)	7
2.4. Multilingual (string) fields.....	7
2.5. Mandatory versus optional fields.....	8
3. General guidelines and provisions.....	9
3.1. Character set	9
3.2. Scope of use.....	9
3.3. Product – trade item hierarchy	9
3.4. ETIM classification	10
4. Field definitions and details.....	12
ROOT TREE.....	12
SUBTREE Supplier	19
Supplier - SupplierAttachments	21
SUBTREE Supplier - Product	25
Product - ProductIdentification	25
Product – ProductDetails	32
Product – ProductRelations	39
Product – Legislation.....	40
Product – LcaEnvironmental.....	56
Product – ProductAttachments	65
Product – EtimClassification	67
Product – OtherClassifications.....	78
Product – ProductCountrySpecificFields.....	80
Product – ProductCountrySpecificExtensions.....	85
SUBTREE Supplier - Product – Tradeltem.....	86
Tradeltem – ItemIdentification.....	86
Tradeltem – ItemDetails	91
Tradeltem – ItemRelations	94
Tradeltem – ItemLogisticDetails	96
Tradeltem – Ordering	100



Tradeltem – Pricing	104
Tradeltem – ItemAttachments.....	111
Tradeltem – ItemCountrySpecificFields	112
Tradeltem – ItemCountrySpecificExtensions	112
SUBTREE Supplier - Product – Tradeltem - PackagingUnit.....	113
PackagingUnit – PackagingIdentification	113
PackagingUnit – PackagingLogisticDetails.....	117
PackagingUnit – TradeltemEnclosed.....	123
5. Code lists.....	125
5.1. CatalogueType.....	125
5.2. AttachmentType.....	125
5.3. ProductStatus	125
5.4. ProductType	126
5.5. RelationType.....	126
5.6. WeeeCategory	126
5.7. RohsIndicator.....	126
5.8. ReachIndicator.....	127
5.9. HazardClass.....	127
5.10. AdrCategory.....	127
5.11. PackingGroup	127
5.12. AggregationState	127
5.13. TunnelCode.....	128
5.14. LabelCode	128
5.15. SignalWord	128
5.16. DeclaredUnitUnit.....	128
5.17. ThirdPartyVerification	129
5.18. LifeCycleStage.....	129
5.19. LcaDeclarationIndicator.....	129
5.20. ReasonNoValue	129
5.21. ItemStatus	130
5.22. ItemCondition.....	130
5.23. NetDimensionUnit / PackagingTypeDimensionUnit	130
5.24. WeightUnit	131
5.25. NetVolumeUnit.....	131
5.26. OrderUnit / UseUnit / PriceUnit.....	132



5.27. AllowanceSurchargeType	133
5.28. PackagingTypeCode.....	134
6. Change log to previous version	135

1. Introduction

If you want to exchange actual ETIM classified product data between supply chain partners, you will need to agree on what exchange format to use. This exchange format has to be defined uniformly, so the information exchanged is clear and unambiguous for both sender and receiver. Furthermore, it has to contain more than just the ETIM classification, to be efficient it has to cover the full master data requirements in the supply chain.

Where some countries have local standards for product data exchange, these are not always suitable or accepted for the international exchange of data. With many companies operating internationally or even globally, there is a strong need for a format that can be used for international product data exchange. It would clearly not make much sense if you have uniform classified product data and then you have to send them in different formats again to your respective trade partners.

For that very reason, ETIM since long has adopted and recommended the use of the BMEcat® standard, developed in Germany, which has been the most common international exchange format within the ETIM countries. ETIM International has released guidelines on how to use (a subset of) the BMEcat® Version 2005 standard for the exchange of ETIM classified product data.

But already some years ago a discussion started on the future of ETIM BMEcat. The basic BMEcat format is frozen many years ago with no possibility to apply for changes any more. To still validate as a BMEcat file, all extensions needed are developed as user defined extensions. This makes the format confusing and far from ideal (especially in XML). So we finally decided, also considering the fact that ETIM is active in over 20 countries worldwide already, to develop a new format in JSON, that in addition to exchange as file also is more suitable for web exchange. Another big advantage of JSON is that it uses far less characters and data to exchange large files containing thousands of lines of product data.

As name for the new format we chose “ETIM xChange”, clear and simple. The format structure distinguishes between product information (what is produced) and trade item information (what is sold), with a third level added to define different packaging units for the same trade item. For more information see chapter 3.3 on product – trade item hierarchy. Also it is possible to combine information of multiple suppliers in the same file, making it especially suitable for use by data pools.

For the development of the new standard, we used EMDG (European Master Data Guideline) as starting point. EMDG (version 2.0) is developed and published by FEST, the European wholesale federation for the HVAC and sanitary sector. The main purpose of the EMDG is to unambiguously define – and uniquely identify - the general master data attributes for products. In addition, we analysed and harmonised where possible content from existing exchange standards used in ETIM countries (ETIM BMEcat, DICO, FAB-DIS, ...)

The result we believe is a format that is both flexible and future proof. In countries where the full trade item hierarchy is not common practice yet, the format still supports all local day-to-day requirements with minimal data redundancy. So, we are aiming for a ‘one fits all’ solution and hope that we can gradually align countries, but that will take time.

2. Format

2.1. JSON

The ETIM xChange format is based on JSON. It is commonly known in many developer communities and with the rise of JSON Schema it is a very sound alternative to XML.

JSON (JavaScript Object Notation) is a lightweight data-interchange format that is easy for humans to read and write, and easy for machines to parse and generate. It is often used to transmit data between a server and a web application, as well as for configuration files and data storage.

JSON Schema, on the other hand, is a way to describe the structure and constraints of JSON documents. It provides a set of rules to define the allowed data types, the structure of the JSON object, and the relationships between different parts of the data. JSON Schema is commonly used for validation purposes, ensuring that JSON data adheres to a specific set of rules or standards.

This document provides more detailed documentation on the elements as defined in the JSON Schema for the ETIM xChange standard, and must always be read in conjunction with the schema file. If in any case the documentation (PDF and/or Excel) is inconsistent with the schema, the schema always prevails.

As (programming) naming convention for the field names we chose Pascal Case, also known as Upper Camel Case, where the first letter of each compound word in a variable is capitalized. When more than one word is needed to properly convey a variable's purpose, the Pascal Case naming convention dictates that words be appended to each other. The use of a single uppercase letter for each additional word makes it easier to read code and discern the purpose of variables.

More information on JSON and JSON Schema can be found on the following websites:

<https://www.json.org> (official site JSON)

<https://json-schema.org> (official site JSON Schema)

https://www.w3schools.com/js/js_json_intro.asp (Introduction tutorial)

2.2. Data types (general)

In the xChange standard, we apply the following data types:

STRING: A string represents free text alphanumeric data. This means that a string can contain many different characters, but they are all considered as if they were text, even if the characters are numbers. A string can also contain spaces.

A STRING field in this guideline can have a fixed length or a minimum and maximum number of characters. Also a pattern can be defined to restrict the permitted characters, for example "String [a-z]{2}[-][A-Z]{2}" will only allow values like "en-GB" for languages.

NUMBER: Numeric value with or without decimals. The decimal separator is the dot. No separator for thousands is permitted. Because the 'number' format in JSON does not allow to define restrictions on decimals, we implemented it for most fields as a string with a pattern like "[0-9]{1,5}[.][0,1]{0,4}[". Only for some fields like Global Warming Potential we use the actual JSON number format since these can be very small numbers like '1,14E-2', in those cases the data type is just indicated as 'Number' without brackets to indicate max. length and decimals.

INTEGER: An integer is a whole number that can be positive, negative, or zero, and it does not have a fractional or decimal part.

BOOLEAN: The Boolean data type can only represent two values: “true” or “false”

VALUE: A value type field also represents alphanumeric data, with the limitation that only values from a predefined (closed) value list are allowed. In JSON also referred to as “enumerated values”

DATE: Date specification in format yyyy-mm-dd (year-month-day) for example 2021-02-01

E-MAIL: A specific JSON string format for validation of e-mail addresses.

URI: URI or Universal Resource Identifier; A specific JSON format to denote the most common usage of a resource identifier. A URI-reference is either a URI or a relative reference. If the URI-reference's prefix does not match the syntax of a scheme followed by its colon separator, then the URI-reference is a relative reference. For more information see <https://datatracker.ietf.org/doc/html/rfc3986>

2.3. Data types (pre-defined specific definitions)

If many data fields are using the same type specification, it makes sense to define that specification/definition once and then refer to this section for the different individual data fields. At this moment, that only concerns GTIN, but can be used for others in the future as well.

GTIN: Global identification of a product, trade item, shipping- or packaging unit by GTIN number. The GTIN (Global Trade Item Number) is a unique 8- to 14 digit number, issued by GS1. In the xChange standard, it is implemented as a string with pattern “[0-9]{8,14}”.

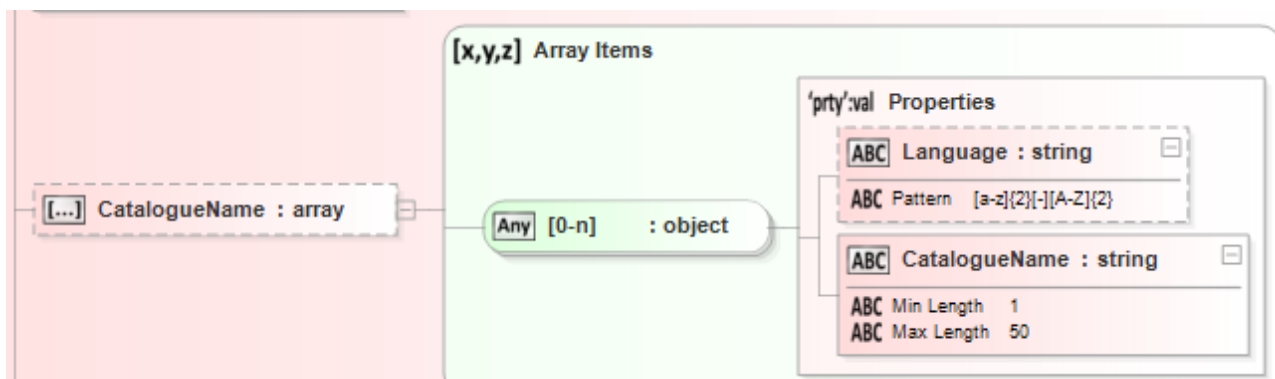
The field is multiple to allow for different GTIN types for the same product and/or if the product is produced in different countries. For more information see <https://www.gs1.org/standards/id-keys/gtin>

2.4. Multilingual (string) fields

Multilingual string fields refer to data structures in which text or string values can be stored in multiple languages. Since the xChange format supports the exchange of multilingual catalogues, many text fields are defined as multilingual string field.

Each entry in the multilingual string field contains text or a string in a specific language. The ETIM xChange format is designed to associate these language-specific entries with the appropriate language code. If the data delivery only contains one language (field ‘Language’ in tree ETIM xChange V1.1), then the language tag for multilingual fields is not mandatory.

Technically, the solution (in the schema) is an array of objects as in the example below.



The proper JSON entry is then as in the example below.

```

"CatalogueName":
[
  {
    "Language": "en-GB",
    "CatalogueName": "Fall/Winter 2023/2024"
  },
  {
    "Language": "nl-NL",
    "CatalogueName": "Herfst/Winter 2023/2024"
  }
],

```

2.5. Mandatory versus optional fields

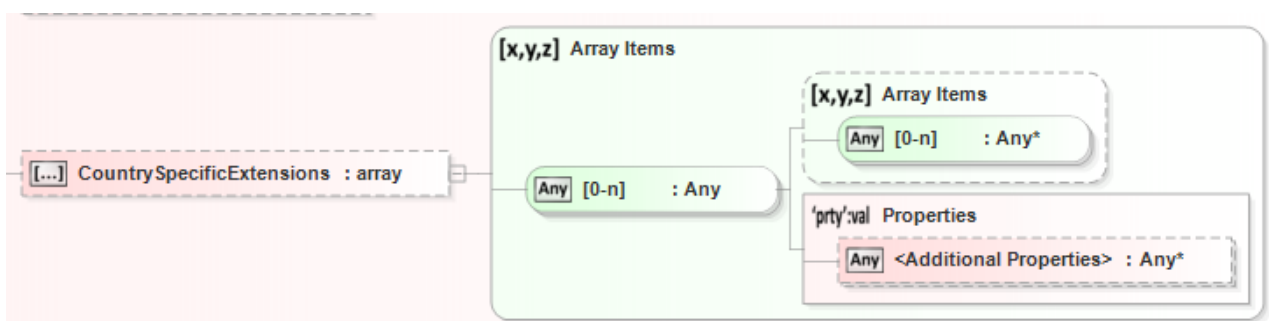
As mentioned before in the introduction, we are aiming for a ‘one fits all’ solution, that is flexible to support common practices in product data exchange in all ETIM supporting countries globally. Therefore the basic format will have a minimum of mandatory fields. So we only made the fields mandatory, that are essential, for example you need to have at least one unique identifier to list a product.

Where at international level most fields and subtrees are defined as optional, each optional element can be marked as mandatory on the level of an individual ETIM country. In a separate Excel sheet with an overview of all elements, that is part of the documentation package for the xChange standard, the local definition of optional and mandatory fields is included.

Please also note that in an actual xChange file optional fields can be left out, but if they are included in the file they can NOT be just left empty, they must validate against the data type and other guidelines for that field.

No additional fields are allowed then those defined in the schema, this is defined for all objects in the schema as *"additionalProperties": false*.

We do however allow for ‘CountrySpecificExtensions’ in three places (at root-, product- and trade item level). This element is intended as ‘anchor point’ to attach user defined, country specific extension structures.



3. General guidelines and provisions

3.1. Character set

The use of the UTF-8 character set is highly recommended. UTF-8 (Unicode Transformation Format, 8-bit) is a character encoding that represents almost all the characters from the Unicode character set, which includes a vast range of characters from various writing systems around the world. UTF-8 is widely adopted as the standard character encoding for the web, which promotes interoperability among different systems, platforms, and programming languages. It helps avoid issues related to character set mismatches when exchanging data between diverse systems.

Additional guidelines regarding text fields (e.g. on formatting, character set, spelling, etc.) can be detailed per country in the country specific guidelines for that country that will be published as part of the documentation package for the xChange standard.

3.2. Scope of use

The xChange format can be used to exchange complete catalogues but can also be used as change catalogue, only containing products or trade items that are new, changed or deleted. This is defined by the field 'CatalogueType', with possible values "FULL" or "CHANGE", see for more information chapter 5.1. If a catalogue is a change catalogue, then also the field 'ChangeReferenceCatalogueVersion' is mandatory, to make clear to which previous catalogue version the changes apply to.

Of the tree main structure levels 'Product', 'TradeItem' and 'PackagingUnit', only the first level 'Product' is mandatory. This makes the format flexible to use for multiple purposes. For example, a manufacturer that only wants to distribute product information to multiple countries with one file without including (mostly local) trade information, can limit his file to only the 'Product' subtree.

3.3. Product – trade item hierarchy

As mentioned in the introduction, the format structure distinguishes between product information (what is produced) and trade item information (what is sold), with a third level added to define different packaging units for the same trade item.

During the development of the xChange format, we had a fundamental discussion on the required hierarchy levels for properly exchanging information on products, trade items and packaging. But we also tested the assumptions that inspired our philosophy against common practice. In this chapter, we want to elaborate in more detail about the choices we made.

In the guidelines for the ETIM classification model, we state that: "The idea is that you only classify the product once (in its smallest sellable article) and other packaging variants are referenced. So (in an ETIM based product database) you search on the product and can find all referenced other delivery/packaging articles." That means for example that we don't want to add length as feature in classes like for cables, because you can often buy the same cable per meter, in a box with 100 meters, a reel with 1000 meters etc.

This provision is based on or at least inspired by the GS1 trade item hierarchy, where a 'level zero' is defined for the technical product, that is unpacked and cannot be ordered. Looking at common practice, there are examples of manufacturers that have assigned a separate product code (and GTIN) to the 'technical product that can't be ordered'. But in most cases manufacturers have no separate product code/GTIN for the 'technical product' (yet) and start with listing the smallest trade item at product level



and repeating it as trade item. In the latter case, there will be some redundancy in repeating identifiers, but that can still be more than compensated by not having to repeat all general product information for each different trade item for the same product.

See below an example to illustrate the difference between the technical product and related trade items.



Where few packaging units can be considered as just a ‘shipping unit’ packaging, most items will have to be listed as separate trade items. The price per single lamp will be different if sold in a 1-pack or a 6-pack. But to allow suppliers to also include items that are merely a shipping unit that you can’t order in their product data exchange files, the ‘PackagingUnit’ subtree is set to multiple.

In this way, the xChange format aims to be flexible to support all current use cases that are common practice in the different ETIM member countries, at the same time limiting the redundancy to a minimum.

3.4. ETIM classification

Other than in ETIM BMEcat, in the new xChange format the ETIM subtree (‘Etim’) is no longer mandatory, also the ETIM Features (‘EtimFeatures’) subtree is optional. Of course we encourage the use of the ETIM classification, but we want to enable the use of the xChange format for everyone.

So you can leave out the complete ETIM information if your product is not yet ETIM classified or perhaps an ETIM class does not exist yet. But if your product is assigned to an ETIM class, all attributed features of this class have to be transmitted in the xChange file, with the exception of non-relevant local standard features. If a value cannot be assigned (e.g. diameter of a rectangular product), then this can be specified by using the field ‘ReasonNoValue’, to indicate that the feature is not relevant, or that the proper value is missing or yet unknown to the data supplier.

Local standard features are features that refer to a local (national) standard and are identified with special codes like EFUK0001, that link the feature to the country (in this case UK) that issued the standard. Special guidelines for local standard features in the data exchange:

- Local standard features are generally NOT mandatory
- In the ETIM xChange certification tool: if extra validations for a specific country are selected, then all the local standard features for this country are mandatory
- In addition, local standard features for any other countries can be optionally added as well, the only validation for these is if they exist in the ETIM version selected for the validation.

The feature type “Range” requires two numeric values that limit a range (interval) of values. The ETIM range feature is considered to be a closed range, so an interval which includes all its limit points, mathematically denoted as [a..b]. With range fields, two tags for the both values should be given in accordance to the xChange specification:

If both values are identical, they are also indicated in two separate tags.

e.g. frequency 50 Hz fix:

```
{  
  "EtimFeatureCode": " EF000416",  
  "EtimValueRangeLower": "50",  
  "EtimValueRangeUpper": "50"  
}
```

The guidelines above relate to the basic ETIM model and not in full to the ETIM MC model. Modelling classes don't include local standard features, delivering only an ETIM MC class code without dimensional features is useless, 'ReasonNoValue' is not yet defined for modelling classes, etc.

For more information on the ETIM classification model and the ETIM MC model, we refer to the dedicated documents that are available in [the download section on our website](#).



4. Field definitions and details

ROOT TREE (LEVEL 0)

FIELD NAME	CatalogueId
LEVEL	1
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-20
ALLOWED VALUES	No limitations
DEFINITION	Unique catalogue identification.
LINK TO MORE INFO	-
EXAMPLE	XYZ-002023-01
EMDG ID	None
EXTRA EXPLANATION	This identification is usually assigned by the supplier when the catalogue is generated and remains unchanged throughout the entire lifecycle of the catalogue.

FIELD NAME	CatalogueName
LEVEL	1
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	YES
MIN - MAX LENGTH	1-100
ALLOWED VALUES	No limitations
DEFINITION	A product catalogue name is a descriptive and distinctive title assigned to the catalogue, serving as an organized and easily recognizable reference for data receivers. The catalogue name often reflects the type of products included, the brand identity, or specific attributes that distinguish the items in the catalogue.
LINK TO MORE INFO	-
EXAMPLE	Fall/Winter 2023/2024
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	CatalogueVersion
LEVEL	1
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-50
ALLOWED VALUES	No limitations
DEFINITION	Version number of the catalogue
LINK TO MORE INFO	-
EXAMPLE	7.1
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	ContractReferenceNumber
LEVEL	1
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-20
ALLOWED VALUES	No limitations
DEFINITION	Identification number of the contract, if this catalogue is related to a specific procurement contract, usually for a specific project, in which terms of bilateral agreements have been established.
LINK TO MORE INFO	-
EXAMPLE	629.09.02.RE
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	CatalogueType
LEVEL	1
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"FULL"; "CHANGE"
DEFINITION	See code list chapter 5.1
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	ChangeReferenceCatalogueVersion
LEVEL	1
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-50
ALLOWED VALUES	No limitations
DEFINITION	Version number of the (previous) catalogue, to which changes listed in this catalogue apply to
LINK TO MORE INFO	-
EXAMPLE	7.0
EMDG ID	None
EXTRA EXPLANATION	Mandatory when CatalogueType = "CHANGE"

FIELD NAME	GenerationDate
LEVEL	1
DATATYPE [PATTERN]	Date [YYYY-MM-DD]
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	10-10
ALLOWED VALUES	Defined by datatype
DEFINITION	Date when the catalogue document is generated by the data supplier.
LINK TO MORE INFO	-
EXAMPLE	2023-08-28
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	NameDataCreator
LEVEL	1
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-50
ALLOWED VALUES	No limitations
DEFINITION	Name of the person responsible for the generation of the product data catalogue.
LINK TO MORE INFO	-
EXAMPLE	Mr. John Doe
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	EmailDataCreator
LEVEL	1
DATATYPE [PATTERN]	E-mail
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	Defined by datatype
DEFINITION	E-mail address of the person responsible for the generation of the product data catalogue.
LINK TO MORE INFO	-
EXAMPLE	john.doe@etim-international.com
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	BuyerName
LEVEL	1
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-50
ALLOWED VALUES	No limitations
DEFINITION	Name of the buyer/customer (company or organization)
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	Only fill in if the catalogue is generated for a specific customer

FIELD NAME	BuyerIdGln
LEVEL	1
DATATYPE [PATTERN]	String [0-9]{13}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	13-13
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Global identification of the buyer/customer by GLN number (Global Location Number), a unique 13-digit number issued by GS1.
LINK TO MORE INFO	-
EXAMPLE	8718699000189
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	BuyerIdDuns
LEVEL	1
DATATYPE [PATTERN]	String [0-9]{9}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	9-9
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Global identification of the buyer/customer by DUNS number (Data Universal Numbering System), a unique 9-digit number issued by Dun & Bradstreet.
LINK TO MORE INFO	-
EXAMPLE	150483782
EMDG ID	None
EXTRA EXPLANATION	Sometimes, DUNS numbers are formatted with dashes like "15-048-3782". The dashes are not part of Dun & Bradstreet's official definition of the DUNS number and thus are not allowed here.

FIELD NAME	DatapoolName
LEVEL	1
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-50
ALLOWED VALUES	No limitations
DEFINITION	Name of the data pool organization as receiver of the catalogue
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	Only fill in if the catalogue is generated for a specific data pool

FIELD NAME	DatapoolGln
LEVEL	1
DATATYPE [PATTERN]	String [0-9]{13}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	13-13
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Global identification of the data pool organization by GLN number (Global Location Number), a unique 13-digit number issued by GS1.
LINK TO MORE INFO	None
EXAMPLE	8718699000189
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	CatalogueValidityStart
LEVEL	1
DATATYPE [PATTERN]	Date [YYYY-MM-DD]
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	10-10
ALLOWED VALUES	Defined by datatype
DEFINITION	The start of validity indicates the date from which the data delivery shall be valid.
LINK TO MORE INFO	-
EXAMPLE	2023-08-28
EMDG ID	None
EXTRA EXPLANATION	Any product or trade item specific date at line level overrules this date if different

FIELD NAME	CatalogueValidityEnd
LEVEL	1
DATATYPE [PATTERN]	Date [YYYY-MM-DD]
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	10-10
ALLOWED VALUES	Defined by datatype
DEFINITION	The expected (not binding) end of validity of the data delivery.
LINK TO MORE INFO	-
EXAMPLE	2023-08-28
EMDG ID	None
EXTRA EXPLANATION	Any product or trade item specific date at line level overrules this date if different. Also a new data delivery of the catalogue overrides the validity end when the new delivery becomes valid.



FIELD NAME	Country
LEVEL	1
DATATYPE [PATTERN]	String [A-Z]{2}
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	2-2
ALLOWED VALUES	Identification of the country of origin by country code according to ISO-3166-1 Alpha2. Identification of the country of origin by country code according to ISO-3166-1 Alpha2.
DEFINITION	Country or countries for which the data delivery is intended.
LINK TO MORE INFO	https://en.wikipedia.org/wiki/ISO_3166-1_alpha-2
EXAMPLE	FR
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	Language
LEVEL	1
DATATYPE [PATTERN]	String [a-z]{2}-[A-Z]{2}
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	5-5
ALLOWED VALUES	Composed of the language code according to ISO 639-1 (stated in two lower case letters) followed by a hyphen and a country code (region designator) according to ISO 3166-1 alpha-2 (stated in two capital letters).
DEFINITION	Basic language(s) of the data delivery.
LINK TO MORE INFO	None
EXAMPLE	"fr-BE"
EMDG ID	None
EXTRA EXPLANATION	If more than one language is included in this field, then all multilingual fields should include the language tag, even if only one language is included for that specific field.



FIELD NAME	CurrencyCode
LEVEL	1
DATATYPE [PATTERN]	String [A-Z]{3}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	3-3
ALLOWED VALUES	Three-letter ISO 4217 currency code
DEFINITION	Code expressing the currency of the prices
LINK TO MORE INFO	https://www.iso.org/iso-4217-currency-codes.html
EXAMPLE	USD
EMDG ID	MD014010
EXTRA EXPLANATION	Field is mandatory if subtree Tradeltem is included in the file

CountrySpecificExtensions (LEVEL 1 – MULTIPLE)

This element is intended as 'anchor point' to attach user defined, country specific extension structures.

SUBTREE Supplier (LEVEL 1 – MULTIPLE)

FIELD NAME	SupplierName
LEVEL	2
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-80
ALLOWED VALUES	No limitations
DEFINITION	Company name or legal name of the supplier
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD011001
EXTRA EXPLANATION	EMDG does not offer a different code for supplier name and manufacturer name, so we used the same code for both. Also EMDG defines a maximum of 18 positions, that is not sufficient, so we chose 80.



FIELD NAME	SupplierIdGln
LEVEL	2
DATATYPE [PATTERN]	String [0-9]{13}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	13-13
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Global identification of the supplier by GLN number (Global Location Number), a unique 13-digit number issued by GS1.
LINK TO MORE INFO	-
EXAMPLE	8718699000189
EMDG ID	MD011002
EXTRA EXPLANATION	EMDG does not offer a different code for supplier GLN and manufacturer GLN, so we used the same code for both.

FIELD NAME	SupplierIdDuns
LEVEL	2
DATATYPE [PATTERN]	String [0-9]{9}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	9-9
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Global identification of the supplier by DUNS number (Data Universal Numbering System), a unique 9-digit number issued by Dun & Bradstreet.
LINK TO MORE INFO	-
EXAMPLE	150483782
EMDG ID	MD011003
EXTRA EXPLANATION	Sometimes, DUNS numbers are formatted with dashes like "15-048-3782". The dashes are not part of Dun & Bradstreet's official definition of the DUNS number and thus are not allowed here. EMDG does not offer a different code for supplier DUNS and manufacturer DUNS, so we used the same code for both.



FIELD NAME	SupplierVatNo
LEVEL	2
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-18
ALLOWED VALUES	No limitations
DEFINITION	VAT number (value-added tax identification number) of the supplier.
LINK TO MORE INFO	https://en.wikipedia.org/wiki/VAT_identification_number https://www.iso.org/iso-4217-currency-codes.html
EXAMPLE	FI12345678
EMDG ID	MD011004
EXTRA EXPLANATION	The format of this number differs between countries, even within the European Union. See the Wikipedia link above to find out in what countries value-added tax applies and what format the VAT number has. China now has the longest number with 18 positions. The EMDG definition and format is not valid globally, so we changed it here to fit.

Supplier - SupplierAttachments (LEVEL 2 – MULTIPLE)

FIELD NAME	AttachmentType
LEVEL	3
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"ATX001", "ATX004", "ATX014", "ATX017", "ATX018", "ATX020", "ATX099". For explanation see code list chapter 5.2.
DEFINITION	Categorizes the kind of attachment with a code
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	Not all attachment types listed in chapter 5.2. are relevant at supplier level, here only allowed codes that are relevant as listed above.



Supplier - SupplierAttachments – AttachmentDetails (LEVEL 3 – MULTIPLE)

FIELD NAME	AttachmentLanguage
LEVEL	4
DATATYPE [PATTERN]	String [a-z]{2}[-][A-Z]{2}
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	5-5
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Language(s) of the attachment. Composed of the language code according to ISO 639-1 (stated in two lower case letters) followed by a hyphen and a country code (region designator) according to ISO 3166-1 alpha-2 (stated in two capital letters).
LINK TO MORE INFO	-
EXAMPLE	“fr-BE”
EMDG ID	None
EXTRA EXPLANATION	Repeat element if multiple languages are contained in the same attachment; if the catalogue contains more than one language, then this element is mandatory (only for attachments that contain language dependent content)

FIELD NAME	AttachmentTypeSpecification
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	YES
MIN - MAX LENGTH	1-100
ALLOWED VALUES	No limitation
DEFINITION	A more detailed specification of AttachmentType. Can be a local attachment code as specified in the country specific guidelines, but also allows for free text specification by the manufacturer/supplier.
LINK TO MORE INFO	-
EXAMPLE	“Supplier’s declaration for products having preferential origin status”
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	AttachmentFilename
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-100
ALLOWED VALUES	No limitation
DEFINITION	File name of the attachment, including file extension.
LINK TO MORE INFO	-
EXAMPLE	picture1.jpg
EMDG ID	None
EXTRA EXPLANATION	The attachment doesn't have to be unique within the file

FIELD NAME	AttachmentUri
LEVEL	4
DATATYPE [PATTERN]	URI-reference
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	Defined by datatype
DEFINITION	URL or file source path of the attachment
LINK TO MORE INFO	-
EXAMPLE	https://www.company.com/articleasset.jpg
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	AttachmentDescription
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	YES
MIN - MAX LENGTH	1-255
ALLOWED VALUES	No limitations
DEFINITION	Detailed description of the content of the attachment, adding more detail than given by AttachmentType and AttachmentTypeSpecification
LINK TO MORE INFO	-
EXAMPLE	"rough sketch"
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	AttachmentIssueDate
LEVEL	4
DATATYPE [PATTERN]	Date [YYYY-MM-DD]
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	10-10
ALLOWED VALUES	Defined by datatype
DEFINITION	Date when the attachment is issued
LINK TO MORE INFO	-
EXAMPLE	2023-08-28
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	AttachmentExpiryDate
LEVEL	4
DATATYPE [PATTERN]	Date [YYYY-MM-DD]
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	10-10
ALLOWED VALUES	Defined by datatype
DEFINITION	Date when the attachment expires
LINK TO MORE INFO	-
EXAMPLE	2025-08-28
EMDG ID	None
EXTRA EXPLANATION	-



SUBTREE Supplier - Product (LEVEL 2 – MULTIPLE)

Product - ProductIdentification (LEVEL 3 – SINGLE)

FIELD NAME	ManufacturerIdGln
LEVEL	4
DATATYPE [PATTERN]	String [0-9]{13}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	13-13
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Global identification of the manufacturer by GLN number (Global Location Number), a unique 13-digit number issued by GS1.
LINK TO MORE INFO	-
EXAMPLE	8718699000189
EMDG ID	MD011002
EXTRA EXPLANATION	EMDG does not offer a different code for supplier GLN and manufacturer GLN, so we used the same code for both.

FIELD NAME	ManufacturerIdDuns
LEVEL	4
DATATYPE [PATTERN]	String [0-9]{9}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	9-9
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Global identification of the manufacturer by DUNS number (Data Universal Numbering System), a unique 9-digit number issued by Dun & Bradstreet.
LINK TO MORE INFO	-
EXAMPLE	150483782
EMDG ID	MD011003
EXTRA EXPLANATION	Sometimes, DUNS numbers are formatted with dashes like "15-048-3782". The dashes are not part of Dun & Bradstreet's official definition of the DUNS number and thus are not allowed here. EMDG does not offer a different code for supplier DUNS and manufacturer DUNS, so we used the same code for both.



FIELD NAME	ManufacturerName
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-80
ALLOWED VALUES	No limitations
DEFINITION	Company name or legal name of the manufacturer
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD011001
EXTRA EXPLANATION	EMDG does not offer a different code for supplier name and manufacturer name, so we used the same code for both. Also EMDG defines a maximum of 18 positions, that is not sufficient, so we chose 80.

FIELD NAME	ManufacturerShortname
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-15
ALLOWED VALUES	No limitations
DEFINITION	A brief representation of a manufacturer's name, often in the form of an acronym or a shortened version, used to quickly identify and reference the manufacturer in various contexts.
LINK TO MORE INFO	None
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	ManufacturerProductNumber
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-35
ALLOWED VALUES	No limitations
DEFINITION	Product number issued by the manufacturer, that identifies the product in the supplier catalogue. If the manufacturer has no separate product number for the (non-orderable) technical product, then this number is the number for the smallest sellable item.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	This number can be identical to SupplierItemNumber if the manufacturer is also the supplier.

FIELD NAME	ProductGtin
LEVEL	4
DATATYPE [PATTERN]	String [0-9]{8,14}
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	8-14
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	See chapter 2.3.
LINK TO MORE INFO	-
EXAMPLE	04047621001104
EMDG ID	None
EXTRA EXPLANATION	This number can be identical to ItemGtin if the manufacturer is also the supplier.



FIELD NAME	UnbrandedProduct
LEVEL	4
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true" or "false"
DEFINITION	An unbranded (or white label) product is a product that does not carry a specific brand name or logo associated with a particular company or manufacturer. These products are often referred to as "generic" or "store brand" products.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	BrandName
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-50
ALLOWED VALUES	No limitations
DEFINITION	Name of the brand. Please note that this can be different from the manufacturer name, most manufacturers have multiple brands. (Example: Mattel is the manufacturer, Barbie is the brand)
LINK TO MORE INFO	-
EXAMPLE	Volkswagen
EMDG ID	MD011008
EXTRA EXPLANATION	-



Product - ProductIdentification – BrandDetails (LEVEL 4 – Multiple)

FIELD NAME	BrandSeries
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	YES
MIN - MAX LENGTH	1-50
ALLOWED VALUES	No limitations
DEFINITION	Name of the product series the product belongs to. A series brings different products together under a common brand family. Series should be used for commercial marketing purposes. Hence, a product may be a part of a defined product series or range and is directly allocated to it.
LINK TO MORE INFO	-
EXAMPLE	Golf
EMDG ID	MD011009
EXTRA EXPLANATION	-

FIELD NAME	BrandSeriesVariation
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	YES
MIN - MAX LENGTH	1-50
ALLOWED VALUES	No limitations
DEFINITION	Brand series variation can refer to a difference of a single product type. It can be a subtype of the product within the brand family. Brand series variation should be used for commercial marketing purposes.
LINK TO MORE INFO	-
EXAMPLE	GTI
EMDG ID	MD011010
EXTRA EXPLANATION	-



FIELD NAME	ProductValidityDate
LEVEL	4
DATATYPE [PATTERN]	Date [YYYY-MM-DD]
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	10-10
ALLOWED VALUES	Defined by datatype
DEFINITION	Date from when the product should become active. This is useful for central databases, where a supplier might submit the product in advance.
LINK TO MORE INFO	-
EXAMPLE	2023-08-28
EMDG ID	MD014001
EXTRA EXPLANATION	EMDG does not distinguish products from trade items, we used the same EMDG code for both.

FIELD NAME	ProductObsolescenceDate
LEVEL	4
DATATYPE [PATTERN]	Date [YYYY-MM-DD]
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	10-10
ALLOWED VALUES	Defined by datatype
DEFINITION	Indication of the expected expiry date of the product.
LINK TO MORE INFO	-
EXAMPLE	2025-08-28
EMDG ID	MD014002
EXTRA EXPLANATION	EMDG does not distinguish products from trade items, we used the same EMDG code for both.



FIELD NAME	CustomsCommodityCode
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	6-16
ALLOWED VALUES	No limitations
DEFINITION	Commodity code required for customs- (import/export) and Intrastat declarations. The first 6 digits are internationally harmonized (Harmonized System – HS code) by all WTO countries. The last digits are country specific. Use most current version published for custom numbers. Exception: Exportable services and software have no commodity code, they get the number “00000001”.
LINK TO MORE INFO	-
EXAMPLE	39174002
EMDG ID	MD012005
EXTRA EXPLANATION	In EMDG only 8-10 digits allowed, extended this to 6-16 with patch release to allow for global use, where codes can range from 6 (just HS without local extension) to 16 in Mexico for specific items.

FIELD NAME	FactorCustomsCommodityCode
LEVEL	4
DATATYPE [PATTERN]	String [0-9]{1,11}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-16
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	The commodity code required for customs dictates the unit of measure. If the dictated unit of measure is anything other than piece, please use this attribute to calculate the order unit into the unit of measurement that is necessary for the foreign trade statistics. E.g. a 3m long pipe can be ordered per piece (order unit = C62). The foreign trade statistics requires the unit meter, therefore the factor is 3. Based on this factor and the order unit also calculation factors for different sales units can be derived.
LINK TO MORE INFO	-
EXAMPLE	3
EMDG ID	MD012006
EXTRA EXPLANATION	-



FIELD NAME	CountryOfOrigin
LEVEL	4
DATATYPE [PATTERN]	String [A-Z]{2}
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	2-2
ALLOWED VALUES	Identification of the country of origin by country code according to ISO-3166-1 Alpha2. Country codes must be written in 2 capital letters. The list codes have been expanded by QU (Countries and territories not specified (not known by the supplier)) and EU (European Union (if it's produced in multiple countries)). These codes are allowed as well.
DEFINITION	Country of origin is the country where the product was manufactured, or the last essential processing step was completed.
LINK TO MORE INFO	https://en.wikipedia.org/wiki/ISO_3166-1_alpha-2
EXAMPLE	DE
EMDG ID	MD012007
EXTRA EXPLANATION	-

Product – ProductDetails (LEVEL 3 – SINGLE)

FIELD NAME	ProductStatus
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	“PRE-LAUNCH”; “ACTIVE”; “ON HOLD”; “PLANNED WITHDRAWAL”; “OBSOLETE”
DEFINITION	Status of the product in terms of its availability. See code list chapter 5.3
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	ProductType
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"PHYSICAL"; "CONTRACT"; "LICENCE"; "SERVICE"
DEFINITION	Type of product. See code list chapter 5.4
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	CustomisableProduct
LEVEL	4
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true" or "false"
DEFINITION	An indicator that a product is customisable, so products that are only specified to a certain degree and can be customized by the customer to a certain degree, like colour, size, options, etc. Ordering these products will always require additional information exchange between the customer and the supplier.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



Product – ProductDetails - ProductDescriptions (LEVEL 4 – MULTIPLE)

FIELD NAME	DescriptionLanguage
LEVEL	5
DATATYPE [PATTERN]	String [a-z]{2}[-][A-Z]{2}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	5-5
ALLOWED VALUES	Composed of the language code according to ISO 639-1 (stated in two lower case letters) followed by a hyphen and a country code (region designator) according to ISO 3166-1 alpha-2 (stated in two capital letters).
DEFINITION	Language(s) of the description.
LINK TO MORE INFO	-
EXAMPLE	“fr-BE”
EMDG ID	None
EXTRA EXPLANATION	If catalogue contains more than one language, then this element is mandatory

FIELD NAME	MinimalProductDescription
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-80
ALLOWED VALUES	No limitations
DEFINITION	Short description of the product, e.g., for ERP systems or invoices/delivery notes. The description must be unique (within the catalogue).
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD013002
EXTRA EXPLANATION	EMDG does not distinguish products from trade items, we used the same EM DG code for both.



FIELD NAME	UniqueMainProductDescription
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-255
ALLOWED VALUES	No limitations
DEFINITION	Main description of the product, a product-identifying, unambiguous description of a product as continuous text. This text type could for example be used in commercial documents and incoming-goods processes. The description must be unique (within the catalogue).
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD013003
EXTRA EXPLANATION	EMDG does not distinguish products from trade items, we used the same EMDG code for both. Different from EMDG, we only allow 255 characters here (has to do with database storage, varchar)

FIELD NAME	FullProductDescription
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-10000
ALLOWED VALUES	No limitations
DEFINITION	Extensive and detailed product description.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	ProductMarketingText
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-10000
ALLOWED VALUES	No limitations
DEFINITION	The marketing text is a user-oriented description of a product as continuous text. It is not intended to be exhaustive and it is for commercial purposes.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD013004
EXTRA EXPLANATION	-

FIELD NAME	ProductSpecificationText
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-10000
ALLOWED VALUES	No limitations
DEFINITION	Also known as tender text. A defined text for generating comparable competing offers from different bidders looking to obtain a business activity in works, supply, or service contracts.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	ProductApplicationInstructions
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-10000
ALLOWED VALUES	No limitations
DEFINITION	This attribute explains on a deeper level how you can or cannot use this product from technical perspective.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD013005
EXTRA EXPLANATION	-



FIELD NAME	ProductKeyword
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-50
ALLOWED VALUES	No limitations
DEFINITION	A product keyword is a specific word, that can be manufacturer or brand specific, used in online search queries to find particular products or services. It plays a crucial role in search engine optimization (SEO) and digital marketing strategies to target potential customers interested in specific products.
LINK TO MORE INFO	-
EXAMPLE	"Dulux-Lamp"
EMDG ID	None
EXTRA EXPLANATION	It is not desired to transmit the ETIM class synonyms here again as manufacturer specific product keywords.

FIELD NAME	ProductPageUrl
LEVEL	5
DATATYPE [PATTERN]	URI-reference
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	Defined by datatype
DEFINITION	Deeplink (URL), that redirects to a relevant webpage of the supplier or manufacturer, where further information on the product may be found.
LINK TO MORE INFO	-
EXAMPLE	https://www.company.com/productnumber
EMDG ID	MD013006
EXTRA EXPLANATION	-





FIELD NAME	WarrantyConsumer
LEVEL	4
DATATYPE [PATTERN]	Integer
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-3
ALLOWED VALUES	0 - 999
DEFINITION	Warranty period in months for consumer customers, starting from the date of sale. An attachment can be added to include a warranty document, specifying the terms of the warranty.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	999 means lifelong warranty

FIELD NAME	WarrantyBusiness
LEVEL	4
DATATYPE [PATTERN]	Integer
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-3
ALLOWED VALUES	0 - 999
DEFINITION	Warranty period in months for business customers, starting from the date of sale. An attachment can be added to include a warranty document, specifying the terms of the warranty.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	999 means lifelong warranty



Product – ProductRelations (LEVEL 3 – MULTIPLE)

FIELD NAME	RelatedManufacturerProductNumber
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-35
ALLOWED VALUES	No limitations
DEFINITION	Product number of the related product, issued by the manufacturer.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	RelatedProductGtin
LEVEL	4
DATATYPE [PATTERN]	String [0-9]{8,14}
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	8-14
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	See chapter 2.3.
LINK TO MORE INFO	-
EXAMPLE	04047621001104
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	RelationType
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	See code list chapter 5.5.
DEFINITION	Code that defines the relation between the related product and the source product.
LINK TO MORE INFO	-
EXAMPLE	“UPSELLING”
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	RelatedProductQuantity
LEVEL	4
DATATYPE [PATTERN]	Integer
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1- ∞
ALLOWED VALUES	1- ∞
DEFINITION	Describes how many products are being referenced.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

Product – Legislation (LEVEL 3 – SINGLE)

FIELD NAME	ElectricComponentContained
LEVEL	4
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	“true” or “false”
DEFINITION	Product contains electrical / electronic components.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD017001
EXTRA EXPLANATION	-

FIELD NAME	BatteryContained
LEVEL	4
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	“true” or “false”
DEFINITION	Product contains an included battery.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD017002
EXTRA EXPLANATION	-



FIELD NAME	WeeeCategory
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"1";"2";"3";"4";"5";"6"
DEFINITION	Specification of the WEEE category (Waste of Electrical and Electronic Equipment). See code list chapter 5.6.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD017003
EXTRA EXPLANATION	-

FIELD NAME	RohsIndicator
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true"; "false"; "exempt"
DEFINITION	Code expressing if RoHS is applicable. The Restriction of Hazardous Substances Directive, short for Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment, restricts (with exceptions) the use of ten hazardous materials in the manufacture of various types of electronic and electrical equipment. See code list chapter 5.7.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD017004
EXTRA EXPLANATION	If RoHS is applicable, please attach the document "Declaration of conformity"



FIELD NAME	CeMarking
LEVEL	4
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true" or "false"
DEFINITION	Indicator expressing if the product has a CE mark. If the CE legislation is not applicable use value "false".
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD017007
EXTRA EXPLANATION	-

FIELD NAME	SdsIndicator
LEVEL	4
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true" or "false"
DEFINITION	Indicator expressing if the product is classified as hazardous substance or dangerous good. If the SdsIndicator is "true", a safety data sheet must be delivered via attachments.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD017008
EXTRA EXPLANATION	-



FIELD NAME	ReachIndicator
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true"; "false"; "no data". See code list chapter 5.8.
DEFINITION	Code expressing if a product is subject to the REACH Regulation. REACH stands for Registration, Evaluation, Authorisation and restriction of Chemicals. A product is subject to REACH, if it contains a "SVHC = substance of very high concern" in a concentration of more than 0.1 mass percentage. If REACH is applicable but data are not (yet) available, use "no data".
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD017005
EXTRA EXPLANATION	-

FIELD NAME	ReachDate
LEVEL	4
DATATYPE [PATTERN]	Date [YYYY-MM-DD]
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	10-10
ALLOWED VALUES	Defined by datatype
DEFINITION	Date, on which the product was checked by the manufacturer for REACH.
LINK TO MORE INFO	-
EXAMPLE	2023-08-28
EMDG ID	MD017006
EXTRA EXPLANATION	-



FIELD NAME	ScipNumber
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	36-36
ALLOWED VALUES	Hexadecimal characters
DEFINITION	SCIP is the database for information on Substances of Concern In articles as such or in complex objects (Products) established under the Waste Framework Directive (WFD). The number is issued by the European Chemicals Agency (ECHA). The SCIP number is a random sequence of 36 hexadecimal characters that follows the Universally Unique Identifier (UUID) format.
LINK TO MORE INFO	-
EXAMPLE	"dd7afb54-7124-4929-9b52-04e39ad2be94"
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	UfiCode
LEVEL	4
DATATYPE [PATTERN]	String [a-zA-Z0-9]{4}-[a-zA-Z0-9]{4}-[a-zA-Z0-9]{4}-[a-zA-Z0-9]{4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	19-19
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	The unique formula identifier (UFI) is a code printed on products with hazardous mixtures in the European Economic Area (EEA), meant to help calls to poison control centres to determine the contents. The code is issued by the European Chemicals Agency (ECHA). The code is a 16-digit alphanumeric code, separated in 4 blocks with dashes.
LINK TO MORE INFO	-
EXAMPLE	"N1QV-R02N-J00M-WQD5"
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	UnNumber
LEVEL	4
DATATYPE [PATTERN]	String [0-9]{4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	4-4
ALLOWED VALUES	See for example link below
DEFINITION	UN hazardous materials identification number. UN numbers or UN IDs are four-digit numbers that identify dangerous goods, hazardous substances and products (such as explosives, flammable liquids, toxic substances, etc.) in the framework of international transport. They are assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.
LINK TO MORE INFO	https://en.wikipedia.org/wiki/Lists_of_UN_numbers
EXAMPLE	2297
EMDG ID	MD017009
EXTRA EXPLANATION	-

FIELD NAME	HazardClass
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"1"; "2.1"; "2.2"; "2.3"; "3"; "4.1"; "4.2"; "4.3"; "5.1"; "5.2"; "6.1"; "6.2"; "7"; "8"; "9"
DEFINITION	The transport hazard classes that have been assigned to the substances on the basis of the main risk they pose in accordance with the ADR or UN model regulations must be specified. (Section 14.1 - 14.4 in the SDS). See code list chapter 5.9.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD017010
EXTRA EXPLANATION	-



FIELD NAME	AdrCategory
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"0"; "1"; "2"; "3"; "4"
DEFINITION	Category according to the European Agreement concerning the International Carriage of Dangerous Goods by Road. Important information regarding the transport of the product. See code list chapter 5.10.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD017011
EXTRA EXPLANATION	-

FIELD NAME	NetWeightHazardousSubstances
LEVEL	4
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Net weight of contained hazardous sub-stances in kg. For solids and objects, the weight of the contained hazardous substances as defined in ADR 5.4
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	VolumeHazardousSubstances
LEVEL	4
DATATYPE [PATTERN]	String [0-9]{1,12}[\.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Volume of contained hazardous substances in litres. For liquids, gases and pastes, the volume of the contained hazardous substances as defined in ADR 5.4
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	UnShippingName
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	YES
MIN - MAX LENGTH	1-255
ALLOWED VALUES	No limitations
DEFINITION	UN-shipping name (PSN).The proper shipping name is that portion of the entry most accurately describing the goods in ADR 2021 of the UN, Table A in Chapter 3.2, which is shown in upper case characters.
LINK TO MORE INFO	-
EXAMPLE	“UN 2902 PESTICIDE, LIQUID, TOXIC, N.O.S. (drazoxolon)“
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	PackingGroup
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"I"; "II"; "III"
DEFINITION	Contains the packing group number(s) assigned to the dangerous substance. Certain articles and substances are not assigned to packing groups. See code list chapter 5.11.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	LimitedQuantities
LEVEL	4
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true" or "false"
DEFINITION	Information on the quantity limitation (LQ) for the transport in accordance with ADR 3.4 for the transport of small-volume packaging. Is this article subject to the regulations according to ADR 3.4 or not?
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	ExceptedQuantities
LEVEL	4
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true" or "false"
DEFINITION	Information on the quantity limitation (EQ) in accordance with ADR 3.5 for the transport of smallest-quantity packaging. Is this article subject to the regulations according to ADR 3.5 or not?
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	AggregationState
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"L"; "S"; "G"
DEFINITION	Specification of the physical state. See code list chapter 5.12.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	SpecialProvisionId
LEVEL	4
DATATYPE [PATTERN]	String "SP[0-9]{2,4}"
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	4-6
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Indication of the special provisions fulfilled which lead to an easing of the transport requirements according to ADR 3.3. (Identified by the abbreviation "SP" and a number)
LINK TO MORE INFO	-
EXAMPLE	SP601
EMDG ID	-
EXTRA EXPLANATION	-



FIELD NAME	ClassificationCode
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-5
ALLOWED VALUES	No limitations
DEFINITION	Products classified under ADR, RID and ADN are also assigned a 'classification code' which identifies groups of dangerous goods within the primary hazard class (Section 14.1 - 14.4 in the SDS). As defined in ADR 3.2 table A.
LINK TO MORE INFO	-
EXAMPLE	A class 3 toxic pesticide would be assigned the classification code FT2
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	HazardLabel
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-3
ALLOWED VALUES	Expected values are: 1, 1.4, 1.5, 1.6, 2.1, 2.2, 2.3, 3, 4.1, 4.2, 4.3, 5.1, 5.2, 6.1, 6.2, 7A, 7B, 7C, 7E, 8, 9 or 9A. But the list is not restricted to only these values since new values might be added in the near future.
DEFINITION	Indicates the numbers of the Hazard Label as defined in ADR 3.2 table A. This label contains a symbol in the centre and a number at the bottom point to provide a clear visual indication of the hazard inherent in the product. (Section 14.1 - 14.4 in the SDS)
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	EnvironmentalHazards
LEVEL	4
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true" or "false"
DEFINITION	As well as verifying the primary hazard class and any other classes, the supplier must determine whether the products are hazardous to the environment. This is a legal requirement under the IMDG Code and the ADR and RID. (Section 14.5 in the SDS)
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	TunnelCode
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"A";"B";"C";"D"; "E"
DEFINITION	Under the European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR) all tunnels are assigned a code which indicates the levels of restriction placed upon the transport of dangerous goods through them. (Section 14.1 - 14.4 in the SDS). See code list chapter 5.13.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	LabelCode
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"GHS01"; "GHS02"; "GHS03"; "GHS04"; "GHS05"; "GHS06"; "GHS07"; "GHS08"; "GHS09"
DEFINITION	Identifier of the hazard pictogram as defined by UN. GHS = Globally Harmonized System of Classification and Labelling of Chemicals. See code list chapter 5.14.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	SignalWord
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"D"; "W"
DEFINITION	Specifying signal word to add details to the GHS_LABEL_CODE, defined by UN-GHS. See code list chapter 5.15.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	HazardStatement
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	4-6
ALLOWED VALUES	No limitations
DEFINITION	Codes defined in UN-GHS and EU Regulation 1272/2008, coding a statement assigned to a hazard class and category that describes the nature of the hazards of a hazardous product, including, where appropriate, the degree of hazard.
LINK TO MORE INFO	https://en.wikipedia.org/wiki/GHS_hazard_statements
EXAMPLE	H241; EUH430; AUH029
EMDG ID	None
EXTRA EXPLANATION	Do not add text in any language.

FIELD NAME	PrecautionaryStatement
LEVEL	4
DATATYPE [PATTERN]	String "P[0-9]{3}"
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	4-4
ALLOWED VALUES	No limitations
DEFINITION	Code as defined in UN-GHS and EU Regulation 1272/2008. A precautionary statement means a standard phrase that describes measures to minimize or prevent adverse effects of a chemical assigned to a hazard class and category. Each precautionary statement is designated a code, starting with the letter P and followed by 3 digits.
LINK TO MORE INFO	https://en.wikipedia.org/wiki/GHS_precautionary_statements
EXAMPLE	P234
EMDG ID	None
EXTRA EXPLANATION	Do not add text in any language.



FIELD NAME	LilonTested
LEVEL	4
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true" or "false"
DEFINITION	If "true", the corresponding test document must be supplied as attachment (corresponding UN 38.3-Report)
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	LithiumAmount
LEVEL	4
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Lithium contained in grams
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	BatteryEnergy
LEVEL	4
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Nominal energy contained in rechargeable batteries or batteries in Wh
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	Nos274
LEVEL	4
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true" or "false"
DEFINITION	Are details of the hazard actuators (for proper shipping names with "N.O.S. (not otherwise specified)") required in accordance with special provision 274 or not?
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	Related to field HAZARD_TRIGGER

FIELD NAME	HazardTrigger
LEVEL	1
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-100
ALLOWED VALUES	No limitations
DEFINITION	Hazard trigger according to special provision 274 or 318 if N.O.S. = "true". Name of hazardous substances (comma-separated), relevant in connection with the N.O.S declaration as defined in ADR 3.2, 5.4 and ADR 3.3 Special Provision 274
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	Related to field Nos274



Product – LcaEnvironmental (LEVEL 3 – SINGLE)

FIELD NAME	DeclaredUnitUnit
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	See code list chapter 5.16.
DEFINITION	A declared unit in a Life Cycle Assessment (LCA) is a specific quantity chosen to represent the product being assessed. It serves as a reference point for measuring the environmental impacts throughout its life cycle, allowing for meaningful comparisons between different products.
LINK TO MORE INFO	-
EXAMPLE	M2
EMDG ID	None
EXTRA EXPLANATION	In this field the unit of measurement is given related to the field DeclaredUnitQuantity

FIELD NAME	DeclaredUnitQuantity
LEVEL	4
DATATYPE [PATTERN]	String [0-9]{1,11}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-16
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	A declared unit in a Life Cycle Assessment (LCA) is a specific quantity chosen to represent the product being assessed. It serves as a reference point for measuring the environmental impacts throughout its life cycle, allowing for meaningful comparisons between different products.
LINK TO MORE INFO	-
EXAMPLE	1.5
EMDG ID	None
EXTRA EXPLANATION	In this field the quantity is given related to the field DeclaredUnitUnit



FIELD NAME	FunctionalUnitDescription
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	YES
MIN - MAX LENGTH	1-10000
ALLOWED VALUES	No limitations
DEFINITION	A functional unit in a Life Cycle Assessment (LCA) is a quantified description of the specific purpose or function that a product or system is designed to fulfil. It serves as a reference point for evaluating the environmental impacts associated with the entire life cycle of that product. The functional unit provides a clear and standardized basis for comparing different alternatives and assessing their environmental performance.
LINK TO MORE INFO	-
EXAMPLE	"To protect a power system against faults such as short circuit and overload, using an auxiliary voltage of 110 V DC, during a service life of 10 years and with a use rate of 100 % in Europe."
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	LcaReferenceLifetime
LEVEL	4
DATATYPE [PATTERN]	Integer
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1- ∞
ALLOWED VALUES	Number of years; 0- ∞
DEFINITION	Reference lifetime in the context of a Life Cycle Assessment (LCA) is the assumed or specified lifespan of a product in years, that is used as a basis for evaluating its environmental impacts throughout its entire life cycle. It serves as a benchmark against which various environmental factors such as resource consumption, emissions, and energy use are assessed.
LINK TO MORE INFO	-
EXAMPLE	10 years
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	ThirdPartyVerification
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"none"; "internally"; "externally". See code list chapter 5.17.
DEFINITION	Third-party verification in the context of a Life Cycle Assessment (LCA) according to ISO 14025 refers to the independent assessment and validation of the data, methods, and results of the LCA study by an internal or external entity. This verification process ensures the credibility, accuracy, and transparency of the LCA.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

Product – LcaEnvironmental - LcaDeclaration (LEVEL 4 – MULTIPLE)

FIELD NAME	LifeCycleStage
LEVEL	5
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"A1"; "A2"; "A3"; "A1-A3"; "A4"; "A5"; "B1"; "B2"; "B3"; "B4"; "B5"; "B6"; "B7"; "C1"; "C2"; "C3"; "C4"; "D". See code list chapter 5.18.
DEFINITION	A life cycle stage in the context of a Life Cycle Assessment (LCA) refers to a distinct phase or period within the product's overall life cycle. It typically includes stages such as raw material extraction, manufacturing, transportation, use, and end-of-life disposal.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	LcaDeclarationIndicator
LEVEL	5
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"MDE"; "MND"; "MNR"; "AGG". See code list chapter 5.19.
DEFINITION	Indicator that specifies for each life cycle stage if that LCA module is declared or not, or is not relevant.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	DeclaredUnitGwpTotal
LEVEL	5
DATATYPE [PATTERN]	Number
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	Defined by datatype
DEFINITION	Total Global Warming Potential (GWP) expressed in carbon dioxide equivalent (kg CO2 eq.) for the declared unit for the specified life cycle stage. GWP quantifies the cumulative impact of greenhouse gas emissions associated with a product. It aggregates emissions of various greenhouse gases (e.g., carbon dioxide, methane, nitrous oxide) into a single unit.
LINK TO MORE INFO	-
EXAMPLE	455
EMDG ID	None
EXTRA EXPLANATION	According to EN 15804



FIELD NAME	DeclaredUnitAp
LEVEL	5
DATATYPE [PATTERN]	Number
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	Defined by datatype
DEFINITION	Acidification potential (AP) expressed in mol H+ eq. for the declared unit for the specified life cycle stage. It quantifies the potential for a substance or activity to contribute to acid rain formation, typically by measuring the emissions of acidic compounds such as sulfur dioxide (SO2)
LINK TO MORE INFO	-
EXAMPLE	2.88
EMDG ID	None
EXTRA EXPLANATION	According to EN 15804

FIELD NAME	DeclaredUnitEpFreshwater
LEVEL	5
DATATYPE [PATTERN]	Number
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	Defined by datatype
DEFINITION	Eutrophication potential (EP) for aquatic fresh water expressed in kg P eq. for the declared unit for the specified life cycle stage. It is a measure of the potential environmental impact related to the excessive growth of algae and aquatic plants in water bodies due to the release of nutrients (primarily nitrogen and phosphorus) from a product.
LINK TO MORE INFO	-
EXAMPLE	0.459
EMDG ID	None
EXTRA EXPLANATION	According to EN 15804



FIELD NAME	DeclaredUnitEpMarine
LEVEL	5
DATATYPE [PATTERN]	Number
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	Defined by datatype
DEFINITION	Eutrophication potential (EP) for aquatic marine water expressed in kg N eq. for the declared unit for the specified life cycle stage. It is a measure of the potential environmental impact related to the excessive growth of algae and aquatic plants in water bodies due to the release of nutrients (primarily nitrogen and phosphorus) from a product.
LINK TO MORE INFO	-
EXAMPLE	0.491
EMDG ID	None
EXTRA EXPLANATION	According to EN 15804

FIELD NAME	DeclaredUnitEpTerrestrial
LEVEL	5
DATATYPE [PATTERN]	Number
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	Defined by datatype
DEFINITION	Eutrophication potential (EP) for terrestrial ecosystems expressed in mol N eq. for the declared unit for the specified life cycle stage. Terrestrial eutrophication refers to the process by which land ecosystems, such as forests or grasslands, become excessively enriched with nutrients, primarily nitrogen and phosphorus.
LINK TO MORE INFO	-
EXAMPLE	4.92
EMDG ID	None
EXTRA EXPLANATION	According to EN 15804



FIELD NAME	DeclaredUnitPocp
LEVEL	5
DATATYPE [PATTERN]	Number
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	Defined by datatype
DEFINITION	Photochemical ozone creation potential (POCP) expressed in kg NMVOC eq. for the declared unit for the specified life cycle stage. It is a measure used to assess the potential of a product to contribute to the formation of ground-level ozone, a harmful air pollutant. It quantifies the product's ability to react with other pollutants and sunlight to produce ozone in the lower atmosphere, which can have detrimental effects on human health and the environment.
LINK TO MORE INFO	-
EXAMPLE	1.25
EMDG ID	None
EXTRA EXPLANATION	According to EN 15804; Non-methane volatile organic compounds (NMVOCs)

FIELD NAME	DeclaredUnitOdp
LEVEL	5
DATATYPE [PATTERN]	Number
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	Defined by datatype
DEFINITION	Ozone depletion potential (ODP) expressed in kg CFC 11 eq. for the declared unit for the specified life cycle stage. It quantifies the potential harm caused by a product, particularly chlorofluorocarbons (CFCs), in reducing the protective ozone layer. ODP is expressed as a numerical value, with the reference substance being CFC-11, which has an ODP of 1.
LINK TO MORE INFO	-
EXAMPLE	0.0000262
EMDG ID	None
EXTRA EXPLANATION	According to EN 15804; CFC 11 = Trichlorofluoromethane



FIELD NAME	DeclaredUnitAdpe
LEVEL	5
DATATYPE [PATTERN]	Number
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	Defined by datatype
DEFINITION	Abiotic depletion potential (ADPE) for minerals and metals (non-fossil resources) expressed in kg Sb eq. for the declared unit for the specified life cycle stage. It is a measure used to assess the environmental impact of resource depletion caused by human activities. It quantifies the potential depletion of non-renewable resources, by considering their scarcity and the energy required for extraction and processing.
LINK TO MORE INFO	-
EXAMPLE	0.0416
EMDG ID	None
EXTRA EXPLANATION	According to EN 15804; Also known as ADP Elements; Sb eq.= antimony-equivalents, a chemical element with the symbol Sb (Latin word stibium).

FIELD NAME	DeclaredUnitAdpf
LEVEL	5
DATATYPE [PATTERN]	Number
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	Defined by datatype
DEFINITION	Abiotic depletion potential (ADPF) for fossil resources expressed in MJ for the declared unit for the specified life cycle stage. It is a measure used to assess the environmental impact of resource depletion caused by human activities. It quantifies the potential depletion of non-renewable resources, by considering their scarcity and the energy required for extraction and processing.
LINK TO MORE INFO	-
EXAMPLE	0.00186
EMDG ID	None
EXTRA EXPLANATION	According to EN 15804



FIELD NAME	DeclaredUnitWdp
LEVEL	5
DATATYPE [PATTERN]	Number
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	Defined by datatype
DEFINITION	Water deprivation potential (WDP) expressed in m3 world eq. deprived for the declared unit for the specified life cycle stage. It is a measure of the potential for water scarcity or deprivation caused by a product. It quantifies the strain on local and global water resources, considering both the consumption of water resources and the environmental consequences of that consumption, such as reduced water availability for ecosystems and other human uses.
LINK TO MORE INFO	-
EXAMPLE	109
EMDG ID	None
EXTRA EXPLANATION	According to EN 15804; sometimes also referred to as water scarcity footprint (WSP) or deprivation-weighted water consumption.

FIELD NAME	DeclaredUnitPert
LEVEL	5
DATATYPE [PATTERN]	Number
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	Defined by datatype
DEFINITION	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials) expressed in MJ for the declared unit for the specified life cycle stage.
LINK TO MORE INFO	-
EXAMPLE	1420
EMDG ID	None
EXTRA EXPLANATION	According to EN 15804



FIELD NAME	DeclaredUnitPenrt
LEVEL	5
DATATYPE [PATTERN]	Number
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	Defined by datatype
DEFINITION	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials) expressed in MJ for the declared unit for the specified life cycle stage.
LINK TO MORE INFO	-
EXAMPLE	8380
EMDG ID	None
EXTRA EXPLANATION	According to EN 15804

Product – ProductAttachments (LEVEL 3 – MULTIPLE)

FIELD NAME	AttachmentType
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	See code list chapter 5.2
DEFINITION	Categorizes the kind of attachment with a code
LINK TO MORE INFO	None
EXAMPLE	ATX001
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	ProductImageSimilar
LEVEL	4
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true" or "false"
DEFINITION	A similar or representative product image is an image that closely resembles the appearance and features of a specific product, but is not the exact product, for example in a different color, size, etc.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	AttachmentOrder
LEVEL	4
DATATYPE [PATTERN]	Integer
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-∞
ALLOWED VALUES	1-∞
DEFINITION	Enables to give a sort order for multiple attachments of the same AttachmentType. Can be used to prioritize different elements, for example to define the preferred product picture (if there are more than one in the file)
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

Product – ProductAttachments - AttachmentDetails (LEVEL 4 – MULTIPLE)

This subtree contains the following (identical) elements as defined earlier under subtree Supplier – SupplierAttachments - AttachmentDetails:

AttachmentLanguage

AttachmentTypeSpecification

AttachmentFilename

AttachmentUri

AttachmentDescription

AttachmentIssueDate

AttachmentExpiryDate

Product – EtimClassification (LEVEL 3 – MULTIPLE)

The ETIM subtree is set to multiple to allow for exchanging the classification of a product according to multiple ETIM release versions in one single file (like ETIM 8.0 and ETIM 9.0). However, the *EtimReleaseVersion* must be unique in case of multiple occurrences of this subtree, in other words it is NOT allowed to classify the same product 2 times differently for the same ETIM release version!

FIELD NAME	EtimReleaseVersion
LEVEL	4
DATATYPE [PATTERN]	[0-9]{1,2}[.]{1}[0-9]{1} DYNAMIC
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	3-7
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Identification of the ETIM release according to which the product has been classified, like 9.0. If the product is classified according to the dynamic ETIM release, then use "DYNAMIC", in that case 'EtimDynamicReleaseDate' is mandatory.
LINK TO MORE INFO	-
EXAMPLE	10.0
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	EtimClassCode
LEVEL	4
DATATYPE [PATTERN]	String EC[0-9]{6}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	8-8
ALLOWED VALUES	Which ETIM class codes are allowed here is defined by the release choice in 'EtimReleaseVersion'
DEFINITION	Identification code of the ETIM class, also known as 'EC code'. A unique ETIM class identifier composed of the letters EC + 6 digits.
LINK TO MORE INFO	https://viewer.etim-international.com/
EXAMPLE	EC000001
EMDG ID	MD012008
EXTRA EXPLANATION	-



FIELD NAME	EtimClassVersion
LEVEL	4
DATATYPE [PATTERN]	Integer
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-∞
ALLOWED VALUES	1-∞
DEFINITION	The version of the ETIM class. Please note that this class version is not related to the release version! A new class will have version 1 and the class version only changes between releases if the class has been changed.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	Mandatory if also ETIM MC information is delivered for this product.

FIELD NAME	EtimDynamicReleaseDate
LEVEL	4
DATATYPE [PATTERN]	Date [YYYY-MM-DD]
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	10-10
ALLOWED VALUES	Defined by datatype
DEFINITION	Date of release of the referenced ETIM version. Only relevant and then mandatory when EtimReleaseVersion = "DYNAMIC". For a data delivery according to ETIM dynamic release, this date is important for the alignment between data supplier and data receiver.
LINK TO MORE INFO	-
EXAMPLE	2023-08-28
EMDG ID	None
EXTRA EXPLANATION	-



Product – EtimClassification – EtimFeatures (LEVEL 4 – MULTIPLE)

FIELD NAME	EtimFeatureCode
LEVEL	5
DATATYPE [PATTERN]	String EF([0-9]{6} 1[0-9]{5} [A-Z]{2}[0-9]{4})
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	8-8
ALLOWED VALUES	- Which ETIM feature codes are allowed here is defined by the class choice in EtimClassCode in combination with the EtimReleaseVersion chosen.
DEFINITION	Identification code of the ETIM feature, also known as 'EF code'. A unique ETIM feature identifier composed of the letters EF + 6 digits, EFI + 5 digits for imperial features or like EFX + 4 digits for local standard features.
LINK TO MORE INFO	-
EXAMPLE	EF000001/EFI00001/EFUK0001
EMDG ID	None
EXTRA EXPLANATION	Depending on the feature type, the proper value is listed as EtimValueCode, EtimValueNumeric, EtimValueRangeLower, EtimValueRangeUpper, EtimValueLogical.

FIELD NAME	EtimValueCode
LEVEL	5
DATATYPE [PATTERN]	String EV[0-9]{6}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	8-8
ALLOWED VALUES	Which ETIM value codes are allowed here is defined by the class choice in EtimClassCode in combination with the EtimReleaseVersion chosen.
DEFINITION	Identification code of the ETIM value (for the referenced feature), also known as 'EV code'. A unique ETIM value identifier composed of the letters EV + 6 digits.
LINK TO MORE INFO	-
EXAMPLE	EV000001
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	EtimValueNumeric
LEVEL	5
DATATYPE [PATTERN]	String [-]{0,1}[0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-18
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Single numeric value for the referenced feature (unit of measurement defined in the ETIM classification where relevant)
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	EtimValueRangeLower
LEVEL	5
DATATYPE [PATTERN]	String [-]{0,1}[0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-18
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Lower numeric value that limits a range (interval) of values for the referenced feature (unit of measurement defined in the ETIM classification where relevant)
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	EtimValueRangeUpper
LEVEL	5
DATATYPE [PATTERN]	String [-]{0,1}[0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-18
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Upper numeric value that limits a range (interval) of values for the referenced feature (unit of measurement defined in the ETIM classification where relevant)
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	EtimValueLogical
LEVEL	5
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	“true” or “false”
DEFINITION	Logical value for the referenced feature representing a yes or no question. (IT technically a Boolean)
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	EtimValueDetails
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	YES
MIN - MAX LENGTH	1-255
ALLOWED VALUES	No limitations
DEFINITION	Additional (manufacturer specific) information related to the standardized EtimValueCode, like manufacturer specific colour descriptions.
LINK TO MORE INFO	-
EXAMPLE	“Polar white” for EV000202 - White
EMDG ID	None
EXTRA EXPLANATION	Should only be used in combination with EtimValueCode

FIELD NAME	ReasonNoValue
LEVEL	5
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	“MV”; “NA”; “UN”
DEFINITION	If for a specific product no value for a referenced feature can be given, then this field can serve to specify the reason. For example a rectangular product has no diameter, the proper value is missing in ETIM or the supplier does not know the value. See code list chapter 5.20.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	EtimModellingClassCode
LEVEL	4
DATATYPE [PATTERN]	String MC[0-9]{6}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	8-8
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Identification code of the ETIM Modelling class, also known as 'MC code'. A unique ETIM Modelling Class identifier composed of the letters MC + 6 digits.
LINK TO MORE INFO	https://modelling.etim-international.com/
EXAMPLE	MC000001
EMDG ID	None
EXTRA EXPLANATION	

FIELD NAME	EtimModellingClassVersion
LEVEL	4
DATATYPE [PATTERN]	Integer
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-∞
ALLOWED VALUES	1-∞
DEFINITION	The version of the ETIM Modelling class.
LINK TO MORE INFO	None
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	Mandatory if EtimModellingClassCode is given



Product – EtimClassification – EtimModellingPorts (LEVEL 4 – MULTIPLE)

FIELD NAME	EtimModellingPortcode
LEVEL	5
DATATYPE [PATTERN]	Integer
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-∞
ALLOWED VALUES	0-∞
DEFINITION	The port code the referenced connection type and/or features relates to .
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	In ETIM MC, each connection point is identified by a port code. This port code is used to refer to connection types, features, sizes and drawing codes belonging to this port. Features not belonging to a connection port are assigned port code 0.

FIELD NAME	EtimModellingConnectionTypeCode
LEVEL	5
DATATYPE [PATTERN]	String CT[0-9]{6}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	8-8
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Connection type classes are special modelling classes, describing a specific connection. These connections may reoccur in multiple modelling classes at multiple connection ports.
LINK TO MORE INFO	https://modelling.etim-international.com/
EXAMPLE	CT000001
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	EtimModellingConnectionTypeVersion
LEVEL	5
DATATYPE [PATTERN]	Integer
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-∞
ALLOWED VALUES	0-∞
DEFINITION	The version of the Connection type class (CT)
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	Mandatory if EtimModellingConnectionTypeCode is given

**Product – EtimClassification – EtimModellingPorts – EtimModellingFeatures
(LEVEL 5 – MULTIPLE)**

FIELD NAME	EtimFeatureCode
LEVEL	5
DATATYPE [PATTERN]	String EF([0-9]{6} I[0-9]{5})
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	8-8
ALLOWED VALUES	- Which ETIM feature codes are allowed here is defined by the class choice in EtimModellingClassCode in combination with the EtimModellingClassVersion chosen.
DEFINITION	Identification code of the ETIM feature, also known as 'EF code'. A unique ETIM feature identifier composed of the letters EF + 6 digits and EFI + 5 digits for imperial features. For ETIM MC, there are no local standard features.
LINK TO MORE INFO	-
EXAMPLE	EF000001/EFI00001
EMDG ID	None
EXTRA EXPLANATION	Depending on the feature type, the proper value is listed as EtimValueCode, EtimValueNumeric, EtimValueRangeLower, EtimValueRangeUpper, EtimValueLogical, EtimValueCoordinateX, EtimValueCoordinateY or EtimValueCoordinateZ.

The following (identical) elements as defined earlier under subtree PRODUCT – ETIM – ETIM_FEATURES:

EtimValueCode

EtimValueNumeric

EtimValueRangeLower

EtimValueRangeUpper

EtimValueLogical

FIELD NAME	EtimValueCoordinateX
LEVEL	6
DATATYPE [PATTERN]	String [-]{0,1}[0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-18
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Coordinate X of a position or of a direction to be specified with +/- to the coordinate (axis) system.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	EtimValueCoordinateY
LEVEL	6
DATATYPE [PATTERN]	String [-]{0,1}[0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-18
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Coordinate Y of a position or of a direction to be specified with +/- to the coordinate (axis) system.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	EtimValueCoordinateZ
LEVEL	6
DATATYPE [PATTERN]	String [-]{0,1}[0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-18
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Coordinate Z of a position or of a direction to be specified with +/- to the coordinate (axis) system.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



**Product – EtimClassification – EtimModellingPorts –
EtimModellingFeatures – EtimValueMatrix (LEVEL 6 – MULTIPLE)**

FIELD NAME	EtimValueMatrixSource
LEVEL	7
DATATYPE [PATTERN]	String [-]{0,1}[0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-18
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Source value of a Matrix feature (type M).
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	EtimValueMatrixResult
LEVEL	7
DATATYPE [PATTERN]	String [-]{0,1}[0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-18
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Result value of a Matrix feature (type M).
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



Product – OtherClassifications (LEVEL 3 – MULTIPLE)

FIELD NAME	ClassificationName
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-35
ALLOWED VALUES	No limitations
DEFINITION	Name of the classification standard that is referenced.
LINK TO MORE INFO	-
EXAMPLE	ECLASS; UNSPSC
EMDG ID	None
EXTRA EXPLANATION	Can also be used for company specific classification

FIELD NAME	ClassificationVersion
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-10
ALLOWED VALUES	No limitations
DEFINITION	Version of the classification standard that is referenced.
LINK TO MORE INFO	-
EXAMPLE	1.0
EMDG ID	None
EXTRA EXPLANATION	Optional because usually irrelevant for company specific classification

FIELD NAME	ClassificationClassCode
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-100
ALLOWED VALUES	No limitations
DEFINITION	Code (or name if not coded) of the class that the product is classified to.
LINK TO MORE INFO	-
EXAMPLE	27-11-03-16
EMDG ID	None
EXTRA EXPLANATION	-



**Product – OtherClassifications – ClassificationFeatures
(LEVEL 4 – MULTIPLE)**

FIELD NAME	ClassificationFeatureName
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-100
ALLOWED VALUES	No limitations
DEFINITION	Description (or code) of the feature according to the referenced classification.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	ClassificationFeatureValue1
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-100
ALLOWED VALUES	No limitations
DEFINITION	Description (or code) of the value for the feature according to the referenced classification. In case the feature asks for a (numeric) range of values, Value1 should be used for the lower value of the range.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	ClassificationFeatureValue2
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-100
ALLOWED VALUES	No limitations
DEFINITION	Description (or code) of the second value for the feature according to the referenced classification. Used in case the feature asks for a (numeric) range of values, Value2 should be used for the upper value of the range.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	ClassificationFeatureUnit
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-100
ALLOWED VALUES	No limitations
DEFINITION	Description (or code) of the unit of measurement for the feature according to the referenced classification. Relevant if the feature values are numeric.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

Product – ProductCountrySpecificFields (LEVEL 3 – MULTIPLE)

In order to be better able to accommodate local needs for information, that is only used for one country, a subtree element CountrySpecificFields is provided, both at product and at trade item level. Another argument for this is to avoid an explosion of elements in the common part of the xChange format, that is internationally used for all countries.

For this element each country can define itself what information they would like to exchange with this element. To make it more flexible it also should be possible to introduce new elements in between official releases. For that a dynamic document (with version date) will be published in the download section with the official guidelines on the website www.etim-international.com/downloads, listing all the defined characteristics per country. Although it is not specifically designed for this, it is also allowed for manufacturers to use this element to provide additional free information in a structured way, which then of course is not standardized.



For the definition of country specific characteristics using this element see the respective country specific regulation sections.

FIELD NAME	CSPProductCharacteristicCode
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-60
ALLOWED VALUES	No limitations
DEFINITION	Each separate characteristic should be identified with a unique code. This code is defined in the country specific regulations. The code should start with a 2-letter country code and an underscore (like UK_...); the rest of the code can be designed as suitable for the country's needs. Some countries want to include a sector designation in the code, where others have no need for that.
LINK TO MORE INFO	-
EXAMPLE	PL_PKWIU
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	CSPProductCharacteristicName
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	YES
MIN - MAX LENGTH	1-255
ALLOWED VALUES	No limitations
DEFINITION	A (short) description of the characteristic in one or more languages.
LINK TO MORE INFO	-
EXAMPLE	"PKWIU"
EMDG ID	None
EXTRA EXPLANATION	For the values to the specific characteristic, the element to use depends on the type of characteristic; this also has to be defined per characteristic code.



FIELD NAME	CSPProductCharacteristicValueBoolean
LEVEL	4
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	“true” or “false”
DEFINITION	Use this element if the characteristic requires a true/false response (a yes or no question)
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	CSPProductCharacteristicValueNumeric
LEVEL	4
DATATYPE [PATTERN]	String [-]{0,1}[0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-18
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Use this element if the characteristic requires a number value, whether or not related to a unit of measurement.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	CSPProductCharacteristicValueRangeLower
LEVEL	4
DATATYPE [PATTERN]	String [-]{0,1}[0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-18
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Use this element if the characteristic requires a range of number values, whether or not related to a unit of measurement. RangeLower being the lower value, always used in combination with RangeUpper.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	CSPProductCharacteristicValueRangeUpper
LEVEL	4
DATATYPE [PATTERN]	String [-]{0,1}[0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-18
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Use this element if the characteristic requires a range of number values, whether or not related to a unit of measurement. RangeUpper being the upper value, always used in combination with RangeLower.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	CSPProductCharacteristicValueString
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	YES
MIN - MAX LENGTH	1-4000
ALLOWED VALUES	No limitations
DEFINITION	Use this element if the characteristic requires a single string characteristics value (free text). The datatype allows for multiple languages, but only one instance may occur per language.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	CSPProductCharacteristicValueSet
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	YES
MIN - MAX LENGTH	1-255
ALLOWED VALUES	No limitations
DEFINITION	Use this element if the characteristic requires multiple (free text) values for a product characteristics. There is no upper bound limit to the number of values that can be exchanged.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	CSPProductCharacteristicValueSelect
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-60
ALLOWED VALUES	Defined by relevant list in country specific regulations
DEFINITION	Use this element if the characteristic requires a value that has to be chosen from a predefined list of possible values. The list of possible values (coded or not) needs to be defined for each specific characteristic in the respective country specific regulation.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	CSPProductCharacteristicValueUnitCode
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-3
ALLOWED VALUES	Recommended is the use of codes as defined in UN/ECE CEFACT Trade Facilitation Recommendation No.20. The datatype however is set to STRING allowing 1 to 3 characters, this to not limit the use of this field in case own defined unit codes are preferred.
DEFINITION	For values of the type NUMERIC and RANGE a UnitCode can be requested.
LINK TO MORE INFO	-
EXAMPLE	MTR
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	CSPProductCharacteristicReferenceGtin
LEVEL	4
DATATYPE [PATTERN]	String [0-9]{8,14}
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	8-14
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	See chapter 2.3.
LINK TO MORE INFO	-
EXAMPLE	04047621001104
EMDG ID	None
EXTRA EXPLANATION	This element can be used to reference this information for example to a specific packaging type of the product.

Product – ProductCountrySpecificExtensions (LEVEL 3 – MULTIPLE)

This element is intended as 'anchor point' to attach user defined, country specific extension structures.



SUBTREE Supplier - Product – TradeItem (LEVEL 3 – MULTIPLE)

TradeItem – ItemIdentification (LEVEL 4 – SINGLE)

FIELD NAME	SupplierItemNumber
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-35
ALLOWED VALUES	No limitations
DEFINITION	Item number issued by the supplier, that identifies the trade item in the supplier catalogue.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	This number can be identical to ManufacturerProductNumber if the manufacturer is also the supplier (and has no separate product number for the (non-orderable) technical product).

FIELD NAME	SupplierAltItemNumber
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-35
ALLOWED VALUES	No limitations
DEFINITION	Additional (internal) trade item identifier of the supplier if different to SupplierItemNumber
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	ManufacturerItemNumber
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-35
ALLOWED VALUES	No limitations
DEFINITION	Item number issued by the manufacturer for the trade item.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	This number can be identical to ManufacturerProductNumber if the manufacturer is also the supplier (and has no separate product number for the (non-orderable) technical product).

FIELD NAME	ItemGtin
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{8,14}
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	8-14
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	See chapter 2.3.
LINK TO MORE INFO	-
EXAMPLE	04047621001104
EMDG ID	None
EXTRA EXPLANATION	This number can be identical to ProductGtin if the manufacturer is also the supplier (and has no separate product number for the (non-orderable) technical product).

FIELD NAME	BuyerItemNumber
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-35
ALLOWED VALUES	No limitations
DEFINITION	Product number used by the buying company
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	DiscountGroupId
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-20
ALLOWED VALUES	No limitations
DEFINITION	The discount group assigns the trade item to a condition group. The contents of the discounts and the coding are defined by the organization. An unambiguous identification number (ID) to be maintained on the item provides a reference to the related discount group.
LINK TO MORE INFO	-
EXAMPLE	RG1
EMDG ID	MD012001
EXTRA EXPLANATION	-

FIELD NAME	DiscountGroupDescription
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	YES
MIN - MAX LENGTH	1-100
ALLOWED VALUES	No limitations
DEFINITION	Description of the discount group. Only general information is to be transmitted, no percentages
LINK TO MORE INFO	-
EXAMPLE	"Steel pipes"
EMDG ID	MD012001
EXTRA EXPLANATION	-



FIELD NAME	BonusGroupId
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-20
ALLOWED VALUES	No limitations
DEFINITION	Bonus groups allocate the trade items to a possible condition group depending on the purchase quantity (e.g. payment of bonuses depends on specific purchase quantities). The contents of the bonus groups and the coding are defined by the organization. An unambiguous identification number (ID) to be maintained on the item provides a reference to the related bonus group.
LINK TO MORE INFO	-
EXAMPLE	BG1
EMDG ID	MD012003
EXTRA EXPLANATION	-

FIELD NAME	BonusGroupDescription
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	YES
MIN - MAX LENGTH	1-100
ALLOWED VALUES	No limitations
DEFINITION	Description of the bonus group. Only general information is to be transmitted, no percentages.
LINK TO MORE INFO	-
EXAMPLE	"Per 1000"
EMDG ID	MD012004
EXTRA EXPLANATION	-



FIELD NAME	ItemValidityDate
LEVEL	5
DATATYPE [PATTERN]	Date [YYYY-MM-DD]
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	10-10
ALLOWED VALUES	Defined by datatype
DEFINITION	Date from when the trade item should become active. This is useful for central databases, where a supplier might submit the trade item in advance.
LINK TO MORE INFO	-
EXAMPLE	2023-08-28
EMDG ID	MD014001
EXTRA EXPLANATION	EMDG does not distinguish products from trade items, we used the same EMDG code for both.

FIELD NAME	ItemObsolescenceDate
LEVEL	5
DATATYPE [PATTERN]	Date [YYYY-MM-DD]
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	10-10
ALLOWED VALUES	Defined by datatype
DEFINITION	Indication of the expected expiry date of the trade item.
LINK TO MORE INFO	-
EXAMPLE	2025-08-28
EMDG ID	MD014002
EXTRA EXPLANATION	EMDG does not distinguish products from trade items, we used the same EMDG code for both.



TradeItem – ItemDetails (LEVEL 4 – SINGLE)

FIELD NAME	ItemStatus
LEVEL	5
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	“PRE-LAUNCH”; “ACTIVE”; “ON HOLD”; “PLANNED WITHDRAWAL”; “OBSOLETE”
DEFINITION	Status of the trade item in terms of its availability. See code list chapter 5.21.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	ItemCondition
LEVEL	5
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	“NEW”; “USED”; “REFURBISHED”
DEFINITION	Field that defines if the trade item is a new, used or refurbished product. See code list chapter 5.22.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	StockItem
LEVEL	5
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true" or "false"
DEFINITION	Information if the item is defined as "produced to stock" from the manufacturer or "normally in stock" from the supplier – not the guarantee that the product is always in stock.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	ShelfLifePeriod
LEVEL	5
DATATYPE [PATTERN]	Integer
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-3
ALLOWED VALUES	0 - 999
DEFINITION	Shelf life is the period of time, from the date of manufacture, that a trade item is expected to remain within its approved product specification while stored under defined conditions. Another expression for the same is 'best before' or 'durability'. Indication of the period in months 1-999;
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD015011
EXTRA EXPLANATION	999 means unlimited durability. Useful for certain products, like for example self-adhesive pipe insulation.



Tradeltem – ItemDetails – ItemDescriptions (LEVEL 5 – MULTIPLE)

FIELD NAME	DescriptionLanguage
LEVEL	6
DATATYPE [PATTERN]	String [a-z]{2}[-][A-Z]{2}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	5-5
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Language(s) of the description. Composed of the language code according to ISO 639-1 (stated in two lower case letters) followed by a hyphen and a country code (region designator) according to ISO 3166-1 alpha-2 (stated in two capital letters).
LINK TO MORE INFO	-
EXAMPLE	“fr-BE”
EMDG ID	None
EXTRA EXPLANATION	If catalogue contains more than one language, then this element is mandatory

FIELD NAME	MinimalItemDescription
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-80
ALLOWED VALUES	No limitations
DEFINITION	Short description of the trade item, e.g., for ERP systems or invoices/delivery notes. The description must be unique (within the catalogue).
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD013002
EXTRA EXPLANATION	EMDG does not distinguish products from trade items, we used the same EMGD code for both.



FIELD NAME	UniqueMainItemDescription
LEVEL	5
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-255
ALLOWED VALUES	No limitations
DEFINITION	Main description of the trade item, a identifying, unambiguous description of a trade item as continuous text. This text type could for example be used in commercial documents and incoming-goods processes. The description must be unique (within the catalogue).
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD013003
EXTRA EXPLANATION	EMDG does not distinguish products from trade items, we used the same EMDG code for both. Different from EMDG, we only allow 255 characters here (has to do with database storage, varchar)

TradeItem – ItemRelations (LEVEL 4 – MULTIPLE)

FIELD NAME	RelatedSupplierItemNumber
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-35
ALLOWED VALUES	No limitations
DEFINITION	Item number of the related trade item, issued by the supplier.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	RelatedManufacturerItemNumber
LEVEL	4
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-35
ALLOWED VALUES	No limitations
DEFINITION	Item number of the related trade item, issued by the manufacturer.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	RelatedItemGtin
LEVEL	4
DATATYPE [PATTERN]	String [0-9]{8,14}
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	8-14
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	See chapter 2.3.
LINK TO MORE INFO	-
EXAMPLE	04047621001104
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	RelationType
LEVEL	4
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	See code list chapter 5.5.
DEFINITION	Code that defines the relation between the related item and the source item.
LINK TO MORE INFO	-
EXAMPLE	"UPSELLING"
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	RelatedItemQuantity
LEVEL	4
DATATYPE [PATTERN]	Integer
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1- ∞
ALLOWED VALUES	1- ∞
DEFINITION	Describes how many items are being referenced.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

TradeItem – ItemLogisticDetails (LEVEL 4 – MULTIPLE)

This subtree is set to multiple to allow for exchanging the item dimensions both in metric and imperial units.

A base item is defined (by GS1) as a product that does not contain another intended sellable unit. So a base item has no smaller units identified by an item number and/or GTIN contained within it.

FIELD NAME	BaseItemNetLength
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Net length/depth of the product (unpacked). Unit of measurement as defined in NetDimensionUnit.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD015004
EXTRA EXPLANATION	-



FIELD NAME	BaseltemNetWidth
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Net width of the product (unpacked). Unit of measurement as defined in NetDimensionUnit.
LINK TO MORE INFO	None
EXAMPLE	-
EMDG ID	MD015005
EXTRA EXPLANATION	-

FIELD NAME	BaseltemNetHeight
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Net height of the product (unpacked). Unit of measurement as defined in NetDimensionUnit.
LINK TO MORE INFO	None
EXAMPLE	-
EMDG ID	MD015006
EXTRA EXPLANATION	-

FIELD NAME	BaseltemNetDiameter
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Net diameter of the product (unpacked). Unit of measurement as defined in NetDimensionUnit.
LINK TO MORE INFO	None
EXAMPLE	-
EMDG ID	MD015007
EXTRA EXPLANATION	-



FIELD NAME	NetDimensionUnit
LEVEL	5
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	See code list chapter 5.23.
DEFINITION	Unit of measurement, that gives meaning to values in the related dimensional field.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	Mandatory if one or more of the fields BaseltemNetLength, BaseltemNetWidth, BaseltemNetHeight and BaseltemNetDiameter are used.

FIELD NAME	BaseltemNetWeight
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Net weight of the product (unpacked). Unit of measurement as defined in NetWeightUnit.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD015008
EXTRA EXPLANATION	-

FIELD NAME	NetWeightUnit
LEVEL	5
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"GRM"; "KGM"; "MGM"; "TNE". See code list chapter 5.24.
DEFINITION	Unit of measurement, that gives meaning to values in the related weight field.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	Mandatory if the field BaseltemNetWeight is used.



FIELD NAME	BaseltemNetVolume
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Net volume of the product (unpacked). Unit of measurement as defined in NetVolumeUnit.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	NetVolumeUnit
LEVEL	5
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	See code list chapter 5.25.
DEFINITION	Unit of measurement, that gives meaning to values in the related volume field.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	Mandatory if the field BaseltemNetVolume is used.



Tradeltem – Ordering (LEVEL 4 – SINGLE)

FIELD NAME	OrderUnit
LEVEL	5
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	See code list chapter 5.26.
DEFINITION	Unit in which the product can be ordered; it is only possible to order multiples of the OrderUnit.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD015003
EXTRA EXPLANATION	-

FIELD NAME	MinimumOrderQuantity
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Minimum order quantity with respect to the OrderUnit.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD015009
EXTRA EXPLANATION	-

FIELD NAME	OrderStepSize
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Number that indicates the quantity steps (with respect to the OrderUnit) in which the product can be ordered.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD015010
EXTRA EXPLANATION	-



FIELD NAME	StandardOrderLeadTime
LEVEL	5
DATATYPE [PATTERN]	Integer
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1- ∞
ALLOWED VALUES	Number of calendar days; 0- ∞
DEFINITION	The standard order lead time (delivery time) is the non-binding period of time from customer order received to customer order delivered. This does not apply to special orders and forward orders. Stated in calendar days. Wholesalers use the standard order lead time as information for stock management.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD014005
EXTRA EXPLANATION	-

FIELD NAME	UseUnit
LEVEL	5
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	See code list chapter 5.26.
DEFINITION	Information about the content of a trade item, displayed in recognizable or relevant units for the end user. The unit that the user uses, consumes, or installs.
LINK TO MORE INFO	-
EXAMPLE	MTR
EMDG ID	MD015001
EXTRA EXPLANATION	-



FIELD NAME	UseUnitConversionFactor
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Conversion factor indicating how many UseUnit one OrderUnit contains.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD015002
EXTRA EXPLANATION	-

FIELD NAME	SingleUseUnitQuantity
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Quantity of smallest usable object expressed in the 'UseUnit'
LINK TO MORE INFO	-
EXAMPLE	Example: the trade item can be ordered in a bundle of 10 tubes of 4 meters. The use unit is per meter. The quantity of use units is 40. A SingleUseUnitQuantity of 4 indicates that a single tube has a length of 4 metres.
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	AlternativeUseUnit
LEVEL	5
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	See code list chapter 5.26.
DEFINITION	The alternative use unit is used to give an extra unit. Information about the content of a trade item, displayed in recognizable or relevant units for the end user. The unit that the user uses, consumes, or installs.
LINK TO MORE INFO	-
EXAMPLE	C62
EMDG ID	MD015001
EXTRA EXPLANATION	This extra unit can be given for calculation purposes. Say the use unit is piece. If a calculation program calculates with square metre, this can be done as well. Can also be used to relate the DeclaredUnitUnit in the subtree LcaEnvironmental to the OrderUnit (in that case AlternativeUseUnit and DeclaredUnitUnit must be identical)

FIELD NAME	AlternativeUseUnitConversionFactor
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Conversion factor indicating how many 'AlternativeUseUnit' one 'OrderUnit' contains.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD015002
EXTRA EXPLANATION	-



TradeItem – Pricing (LEVEL 4 – MULTIPLE)

FIELD NAME	PriceUnit
LEVEL	5
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	See code list chapter 5.26.
DEFINITION	Unit of measurement on which the price is calculated. In most cases equal to OrderUnit, but exceptionally can be different.
LINK TO MORE INFO	-
EXAMPLE	MTK
EMDG ID	None
EXTRA EXPLANATION	A quite common example is an insulation board, that you order per piece but the price is per square meter. OrderUnit = C62 (one piece), PriceUnit = MTK (square metre), then PriceUnitFactor = 1.8 (assuming in this example that a single board has a surface of 1.8 square metre).

FIELD NAME	PriceUnitFactor
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,11}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-16
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	The price factor is the conversion factor for PriceUnit and OrderUnit.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	PriceQuantity
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,5}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-10
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	A multiple of the PriceUnit indicating to which quantity all the specified prices refer to.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD014006
EXTRA EXPLANATION	EMDG relates 'PriceQuantity' to 'OrderUnit', here it is related to 'PriceUnit', that can be different from the order unit.

FIELD NAME	PriceOnRequest
LEVEL	5
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true" or "false"
DEFINITION	Indication expressing that the price must be requested from the supplier. When product has no fixed price, value = "true".
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD014007
EXTRA EXPLANATION	-

FIELD NAME	GrossListPrice
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,11}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-16
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	The gross list price is the general price given by the supplier excluding sales tax (Vat).
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD014008
EXTRA EXPLANATION	-



FIELD NAME	NetPrice
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,11}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-16
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Customer-specific end price excluding sales tax; net purchase price without sales tax
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	RecommendedRetailPrice
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,11}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-16
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	The non-binding recommended "retail" price or "suggested" price including sales tax (Vat).
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD014009
EXTRA EXPLANATION	-

FIELD NAME	Vat
LEVEL	5
DATATYPE [PATTERN]	String [0-9]{1,2}[.]{0,1}[0-9]{0,2}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-5
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Number expressing the value added tax as a percentage of the VAT base amount.
LINK TO MORE INFO	-
EXAMPLE	21 (for 21%)
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	PriceValidityDate
LEVEL	5
DATATYPE [PATTERN]	Date [YYYY-MM-DD]
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	10-10
ALLOWED VALUES	Defined by datatype
DEFINITION	Validity start date of the price information.
LINK TO MORE INFO	-
EXAMPLE	2023-08-28
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	PriceExpiryDate
LEVEL	5
DATATYPE [PATTERN]	Date [YYYY-MM-DD]
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	10-10
ALLOWED VALUES	Defined by datatype
DEFINITION	Validity end date of the price information.
LINK TO MORE INFO	-
EXAMPLE	2025-08-28
EMDG ID	-
EXTRA EXPLANATION	-



TradeItem – Pricing – AllowanceSurcharge (LEVEL 5 – MULTIPLE)

Information about an allowance or surcharge on trade item line level. The allowance or surcharge amount is used to calculate the net price, and is never 'for information only'. The allowance or surcharge should only be given if it is not already included in the agreed price.

FIELD NAME	AllowanceSurchargeIndicator
LEVEL	6
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"ALLOWANCE", "SURCHARGE"
DEFINITION	Indicates whether it is an allowance (lowers the price) or a surcharge (increases the price)
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	AllowanceSurchargeValidityDate
LEVEL	6
DATATYPE [PATTERN]	Date [YYYY-MM-DD]
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	10-10
ALLOWED VALUES	Defined by datatype
DEFINITION	Date from which an allowance or a surcharge will be applicable. If nothing is specified then the ItemValidityDate is applicable, if this date isn't specified either then 'today' is applicable.
LINK TO MORE INFO	-
EXAMPLE	2023-08-28
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	AllowanceSurchargeType
LEVEL	6
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	See code list chapter 5.27.
DEFINITION	Categorizes the kind of allowance or surcharge with a code. Only code ADR (=Other services) and QD (=Bracket discount) can be used multiple times. When you use ADR multiple times it is advised to use the field AllowanceSurchargeDescription as well.
LINK TO MORE INFO	-
EXAMPLE	ADR
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	AllowanceSurchargeAmount
LEVEL	6
DATATYPE [PATTERN]	String [0-9]{1,11}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-16
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	The amount of the allowance or surcharge on trade item line level. It is recommended to use AllowanceSurchargeAmount, if this is not possible, AllowanceSurchargePercentage should be used.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	AllowanceSurchargeSequenceNumber
LEVEL	6
DATATYPE [PATTERN]	Integer
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-∞
ALLOWED VALUES	1-∞
DEFINITION	Number for identifying and sequencing a trade item line level allowance or surcharge. If multiple allowances or surcharges are applied, it is mandatory to use a sequence number to indicate the order of calculation.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	AllowanceSurchargePercentage
LEVEL	6
DATATYPE [PATTERN]	String [0-9]{1,3}[.]{0,1}[0-9]{0,3}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-7
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Percentage of the trade item line level allowance or surcharge. This data is given for information only.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	AllowanceSurchargeDescription
LEVEL	6
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	YES
MIN - MAX LENGTH	1-35
ALLOWED VALUES	No limitations
DEFINITION	Description of the type of allowance or surcharge or a further specification of the type of allowance or surcharge.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	AllowanceSurchargeMinimumQuantity
LEVEL	6
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Minimum quantity related to the OrderUnit starting from which the trade item line level allowance or surcharge becomes applicable.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

Tradeltem – ItemAttachments (LEVEL 4 – MULTIPLE)

FIELD NAME	AttachmentType
LEVEL	5
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	See code list chapter 5.2
DEFINITION	Categorizes the kind of attachment with a code
LINK TO MORE INFO	-
EXAMPLE	ATX001
EMDG ID	None
EXTRA EXPLANATION	-

Tradeltem – ItemAttachments - AttachmentDetails (LEVEL 5 – MULTIPLE)

This subtree contains the following (identical) elements as defined earlier under subtree Supplier-SupplierAttachments-AttachmentDetails:

AttachmentLanguage

AttachmentTypeSpecification

AttachmentFilename

AttachmentUri

AttachmentDescription

AttachmentIssueDate

AttachmentExpiryDate

TradelItem – ItemCountrySpecificFields (LEVEL 4 – MULTIPLE)

This subtree contains the following elements as defined earlier under subtree Product - ProductCountrySpecificFields, that are identical except for the name, instead of Product here they relate to Item (as in TradelItem):

CSItemCharacteristicCode

CSItemCharacteristicName

CSItemCharacteristicValueBoolean

CSItemCharacteristicValueNumeric

CSItemCharacteristicValueRangeLower

CSItemCharacteristicValueRangeUpper

CSItemCharacteristicValueString

CSItemCharacteristicValueSet

CSItemCharacteristicValueSelect

CSItemCharacteristicValueUnitCode

CSItemCharacteristicReferenceGtin

TradelItem – ItemCountrySpecificExtensions (LEVEL 4 – MULTIPLE)

This element is intended as 'anchor point' to attach user defined, country specific extension structures.



**SUBTREE Supplier - Product – TradeItem - PackagingUnit
(LEVEL 4 – MULTIPLE)**

PackagingUnit – PackagingIdentification (LEVEL 5 – SINGLE)

FIELD NAME	SupplierPackagingNumber
LEVEL	6
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-35
ALLOWED VALUES	No limitations
DEFINITION	Packaging number issued by the supplier, that identifies the packaging in the supplier catalogue.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	This number can be identical to ManufacturerPackagingNumber if the manufacturer is also the supplier.

FIELD NAME	ManufacturerPackagingNumber
LEVEL	6
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-35
ALLOWED VALUES	No limitations
DEFINITION	Packaging number issued by the manufacturer.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	This number can be identical to SupplierPackagingNumber if the manufacturer is also the supplier.



FIELD NAME	PackagingGtin
LEVEL	6
DATATYPE [PATTERN]	String [0-9]{8,14}
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	8-14
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	See chapter 2.3.
LINK TO MORE INFO	-
EXAMPLE	04047621001104
EMDG ID	MD016003
EXTRA EXPLANATION	-

FIELD NAME	PackagingTypeCode
LEVEL	6
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	See code list chapter 5.28.
DEFINITION	Code defining the packaging type
LINK TO MORE INFO	-
EXAMPLE	BX
EMDG ID	MD016001
EXTRA EXPLANATION	-

FIELD NAME	PackagingQuantity
LEVEL	6
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Number of OrderUnit contained in the packaging type.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD016002
EXTRA EXPLANATION	-



FIELD NAME	TradeItemPrimaryPackaging
LEVEL	6
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true" or "false"
DEFINITION	Primary packaging is the first layer of packaging of the trade item.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	Only relevant if there are multiple packaging types for the same trade item. For example, if a blister of batteries is sold as single blister or in a box with 10 blisters, then the blister is the primary packaging.

FIELD NAME	PackagingGs1Code128
LEVEL	6
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-48
ALLOWED VALUES	No limitations
DEFINITION	GS1-128 is an application standard of the GS1 implementation using the Code 128 barcode specification. GS1-128 uses a series of Application Identifiers to include additional data such as best before dates, batch numbers, quantities, weights and many other attributes needed by the user.
LINK TO MORE INFO	-
EXAMPLE	(01) 1 0012345 67890 2 (10) 123ABC
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	PackagingRecyclable
LEVEL	6
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true" or "false"
DEFINITION	Indicator if the packaging can be collected, processed, and used to a certain degree to manufacture new products or packaging materials, after it can or will no longer be used for its intended purpose.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	PackagingReusable
LEVEL	6
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true" or "false"
DEFINITION	Indicator if the packaging can be used multiple times for its intended purpose. If the value is "false" then the packaging is for one time use only.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



FIELD NAME	PackagingBreak
LEVEL	6
DATATYPE [PATTERN]	Boolean
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"true" or "false"
DEFINITION	An indicator stating whether a packaging may be broken. Packages containing multiple consumer packaging units should go unbroken through the value chain from manufacturer to store, in that case the value should be "false"
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	NumberOfPackagingParts
LEVEL	6
DATATYPE [PATTERN]	Integer
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1- ∞
ALLOWED VALUES	1- ∞
DEFINITION	Number of packaging parts in which a product will be delivered.
LINK TO MORE INFO	-
EXAMPLE	2
EMDG ID	MD016008
EXTRA EXPLANATION	For example a shower door that is delivered in 2 boxes (= 2 packages).

PackagingUnit – PackagingLogisticDetails (LEVEL 5 – MULTIPLE)

This subtree is set to multiple for 2 reasons:

- 1. If NumberOfPackagingParts is more than one, then the fields in this subtree can be specified for the different packaging parts.*
- 2. To allow for exchanging the packaging dimensions both in metric and imperial units.*



FIELD NAME	SupplierPackagingPartNumber
LEVEL	6
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-35
ALLOWED VALUES	No limitations
DEFINITION	Packaging part number issued by the supplier, that identifies the packaging part. Only relevant if NumberOfPackagingParts is more than one and if the supplier has issued a separate number for each individual packaging part.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	This number can be identical to ManufacturerPackagingPartNumber if the manufacturer is also the supplier.

FIELD NAME	ManufacturerPackagingPartNumber
LEVEL	6
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-35
ALLOWED VALUES	No limitations
DEFINITION	Packaging part number issued by the manufacturer, that identifies the packaging part. Only relevant if NumberOfPackagingParts is more than one and if the manufacturer has issued a separate number for each individual packaging part.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	This number can be identical to SupplierPackagingPartNumber if the manufacturer is also the supplier.



FIELD NAME	PackagingPartGtin
LEVEL	6
DATATYPE [PATTERN]	String [0-9]{8,14}
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	8-14
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	See chapter 2.3.
LINK TO MORE INFO	-
EXAMPLE	04047621001104
EMDG ID	None
EXTRA EXPLANATION	Only relevant if NumberOfPackagingParts is more than one and if the manufacturer/supplier has issued a separate number for each individual packaging part.

FIELD NAME	PackagingTypeLength
LEVEL	6
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Length/depth of the entire packaging type, according to the unit of measurement as defined by PackagingTypeDimensionUnit.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD016004
EXTRA EXPLANATION	EMDG defines that for round packaging types (like a cable reel), you should give the square dimensions of the space taken. We did not follow that here, since we have PackagingTypeDiameter.



FIELD NAME	PackagingTypeWidth
LEVEL	6
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Width of the entire packaging type, according to the unit of measurement as defined by PackagingTypeDimensionUnit.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD016005
EXTRA EXPLANATION	EMDG defines that for round packaging types (like a cable reel), you should give the square dimensions of the space taken. We did not follow that here, since we have PackagingTypeDiameter.

FIELD NAME	PackagingTypeHeight
LEVEL	6
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Height of the entire packaging type, according to the unit of measurement as defined by PackagingTypeDimensionUnit.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD016006
EXTRA EXPLANATION	EMDG defines that for round packaging types (like a cable reel), you should give the square dimensions of the space taken. We did not follow that here, since we have PackagingTypeDiameter.



FIELD NAME	PackagingTypeDiameter
LEVEL	6
DATATYPE [PATTERN]	String [0-9]{1,12}[.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Diameter of the entire packaging type, according to the unit of measurement as defined by PackagingTypeDimensionUnit.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-

FIELD NAME	PackagingTypeDimensionUnit
LEVEL	6
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	See code list chapter 5.23.
DEFINITION	Unit of measurement, that gives meaning to values in the related dimensional field.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	Mandatory if one or more of the fields PackagingTypeLength, PackagingTypeWidth, PackagingTypeHeight and PackagingTypeDiameter are used.



FIELD NAME	PackagingTypeWeight
LEVEL	6
DATATYPE [PATTERN]	String [0-9]{1,12}[\.]{0,1}[0-9]{0,4}
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-17
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	Weight of the entire packaging type. Unit of measurement as defined in PackagingTypeWeightUnit.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	MD016007
EXTRA EXPLANATION	-

FIELD NAME	PackagingTypeWeightUnit
LEVEL	6
DATATYPE [PATTERN]	Value
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	Not relevant
ALLOWED VALUES	"GRM"; "KGM"; "MGM"; "TNE". See code list chapter 5.24.
DEFINITION	Unit of measurement, that gives meaning to values in the related weight field.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	Mandatory if the field PackagingTypeWeight is used.

FIELD NAME	PackagingStackable
LEVEL	6
DATATYPE [PATTERN]	Integer
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1- ∞
ALLOWED VALUES	0- ∞
DEFINITION	Number of times the packaging can be stacked on itself.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



PackagingUnit – TradeItemEnclosed (LEVEL 5 – MULTIPLE)

The enclosed trade item is another trade item, this way the trade item hierarchy is described. Usually one type of trade item is enclosed (e.g. only 60 watt bulbs), but multiple types of trade items can be included (for example: 40 -, 60 - and 75-watt bulbs in a pack).

FIELD NAME	SupplierItemNumber
LEVEL	6
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-35
ALLOWED VALUES	No limitations
DEFINITION	Item number issued by the supplier, that identifies the enclosed trade item.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	This number can be identical to ManufacturerItemNumber if the manufacturer is also the supplier.

FIELD NAME	ManufacturerItemNumber
LEVEL	6
DATATYPE [PATTERN]	String
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1-35
ALLOWED VALUES	No limitations
DEFINITION	Item number issued by the manufacturer for the enclosed trade item.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	This number can be identical to SupplierItemNumber if the manufacturer is also the supplier.



FIELD NAME	ItemGtin
LEVEL	6
DATATYPE [PATTERN]	String [0-9]{8,14}
SINGLE/MULTIPLE	Multiple
MANDATORY/OPTIONAL	Optional
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	8-14
ALLOWED VALUES	Defined by datatype pattern
DEFINITION	See chapter 2.3.
LINK TO MORE INFO	-
EXAMPLE	04047621001104
EMDG ID	None
EXTRA EXPLANATION	

FIELD NAME	EnclosedItemQuantity
LEVEL	6
DATATYPE [PATTERN]	Integer
SINGLE/MULTIPLE	Single
MANDATORY/OPTIONAL	Mandatory
MULTILINGUAL YES/NO	NO
MIN - MAX LENGTH	1- ∞
ALLOWED VALUES	1- ∞
DEFINITION	Quantity of referenced enclosed trade items.
LINK TO MORE INFO	-
EXAMPLE	-
EMDG ID	None
EXTRA EXPLANATION	-



5. Code lists

5.1. CatalogueType

CatalogueType	
Code	Description
FULL	Complete catalogue, containing all products and corresponding trade items offered to the buyer
CHANGE	Catalogue only containing products that are new, changed or deleted. Changes can be at product and/or in corresponding trade items. Must be clearly referenced to previous catalogue version (ChangeReferenceCatalogueVersion).

5.2. AttachmentType

AttachmentType	
Code	Description
ATX001	Approval/certificate
ATX002	BIM object
ATX003	Data sheet
ATX004	Declaration (other)
ATX005	Declaration DOP (Declaration of performance)
ATX006	Declaration EPD (Environmental Product Declaration)
ATX007	Declaration REACH
ATX008	Declaration RoHS
ATX009	Declaration WEEE
ATX010	Diagram
ATX011	Drawing
ATX012	Energy label
ATX013	LCA document (Life Cycle Assessment)
ATX014	Logo
ATX015	Main product/item picture
ATX016	Manual
ATX017	Marketing document
ATX018	Picture
ATX019	Safety data sheet
ATX020	Video
ATX021	Warranty statement
ATX022	Software
ATX099	Others

5.3. ProductStatus

ProductStatus	
Code	Description
PRE-LAUNCH	Product is not yet available (may be available to pre-order)
ACTIVE	Product is currently manufactured and available to order
ON HOLD	Product is temporarily not available due to engineering issues and/or raw material shortage
PLANNED WITHDRAWAL	Product is no longer manufactured (or withdrawal is planned) but may still be available from stock
OBSOLETE	Product is no longer manufactured and is not available to order



5.4. ProductType

ProductType	
Code	Description
PHYSICAL	The product is physical, thus tangible
CONTRACT	The product is a contract
LICENCE	The product is a license
SERVICE	The product is a service

5.5. RelationType

RelationType	
Code	Description
ACCESSORY	An accessory product is considered to extend the functionality of the source product
MAIN_PRODUCT	The main product that the source products relates to. Used to relate back accessories and spare parts to the main product(s) they are used for.
CONSISTS_OF	Used to build up parts lists. Reference is always made from the parent part to the parts it consists of. In order to reference the number of parts contained, quantity can be added in separate column. Used to display set components.
CROSS-SELLING	Cross-selling identifies products that satisfy additional, complementary needs that are unfulfilled by the original item
MANDATORY	A mandatory additional product is necessary for the functionality of the source product. If several products are marked MANDATORY, they are all necessary for the functionality of the source product.
SELECT	If several products are connected by SELECT, at least one of the additional products listed under RELATED_ITEM is necessary for the functionality of the source product.
SIMILAR	A similar product is defined as a product which is similar in purpose and functions to the source product and can possibly be used in its place.
SPAREPART	A spare part is defined as a part of the product that can be replaced and ordered separately in the course of maintenance and repair activities.
UPSELLING	A more advanced version of the source product with added value. The source article is still available.
SUCCESSOR	Successor model, that in terms of functionality and technical specification replaces this product.
PREDECESSOR	Predecessor model, also called product to be replaced. The manufacturer believes that the predecessor in terms of functionality and technical specification shall be replaced by this product.
OTHER	This reference type can be used if none of the other reference types adequately describes the relationship between the reference product and the source product.

5.6. WeeeCategory

WeeeCategory	
Code	Description
1	Temperature exchange equipment
2	Screens and monitors
3	Lamps
4	Large equipment > 50 cm
5	Small equipment < 50 cm
6	Small IT and telecommunication equipment < 50 cm

5.7. RohsIndicator

RohsIndicator	
Code	Description
true	RoHS is applicable for this product
false	RoHS is not applicable for this product
exempt	The directive would be applicable, but the product is exempted from RoHS compliance

5.8. ReachIndicator

ReachIndicator	
Code	Description
true	contains substances > 0.1 mass percentage
false	does not contain substances > 0.1 mass percentage
no data	If REACH is applicable but data are not (yet) available

5.9. HazardClass

HazardClass	
Code	Description
1	Explosive substances and articles
2.1	Flammable gases
2.2	Non-flammable gases, non-toxic gases
2.3	Toxic gases
3	Flammable liquids
4.1	Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives
4.2	Substances liable to spontaneous combustion
4.3	Substances which, in contact with water, emit flammable gases
5.1	Oxidizing substances
5.2	Organic peroxides
6.1	Toxic substances
6.2	Infectious substances
7	Radioactive material
8	Corrosive substances
9	Miscellaneous dangerous substances and articles
SOURCE/STANDARD/REFERENCE	
In accordance with the ADR or UN model regulations (Section 14.1 - 14.4 in the SDS)	

5.10. AdrCategory

AdrCategory	
Code	Description
0	Maximum total quantity (in kg or litres) per transport unit: 0
1	Maximum total quantity (in kg or litres) per transport unit: 20
2	Maximum total quantity (in kg or litres) per transport unit: 333
3	Maximum total quantity (in kg or litres) per transport unit: 1000
4	Maximum total quantity (in kg or litres) per transport unit: unlimited

5.11. PackingGroup

PackingGroup	
Code	Description
I	High danger
II	Medium danger
III	Low danger

5.12. AggregationState

AggregationState	
Code	Description
L	liquid/paste
S	solid
G	gaseous

5.13. TunnelCode

TunnelCode	
Code	Description
A	No restrictions for the transport of dangerous goods
B	Restriction for dangerous goods which may lead to a very large explosion
C	Restriction for dangerous goods which may lead to a very large explosion, a large explosion or a large toxic release
D	Restriction for dangerous goods which may lead to a very large explosion, to a large explosion, to a large toxic release or to a large fire
E	Restriction for all dangerous goods other than UN Nos. 2919, 3291, 3331, 3359 and 3373.

5.14. LabelCode

LabelCode	
Code	Description
GHS01	Explosive
GHS02	Flammable
GHS03	Oxidiser
GHS04	Gases under pressure
GHS05	Corrosive
GHS06	Toxic
GHS07	Irritant, sensitising, harmful
GHS08	Long-term health hazard
GHS09	Hazardous to the aquatic environment

5.15. SignalWord

SignalWord	
Code	Description
D	Danger
W	Warning

5.16. DeclaredUnitUnit

DeclaredUnitUnit	
Code	Description
KGM	Kilogram
LTR	Litre
MTK	Square metre
MTQ	Cubic metre
MTR	Metre
PCE	Piece
TNE	Metric ton
FOT	Foot
FTK	Square foot
FTQ	Cubic foot
LBR	Pound
LTN	Imperial ton (long ton)
YDK	Square yard
YRD	Yard
SOURCE/STANDARD/REFERENCE	
UN/ECE recommendation 20 - annex I	



5.17. ThirdPartyVerification

ThirdPartyVerification	
Code	Description
none	No third-party verification has been conducted for this LCA
internally	Third-party verification has been conducted by an internal (independent) person
externally	Third-party verification has been conducted by an external (independent) person
SOURCE/STANDARD/REFERENCE	
ISO 14025	

5.18. LifeCycleStage

LifeCycleStage	
Code	Description
A1	Raw material supply
A2	Transport to the manufacturer
A3	Manufacturing
A1-A3	Product stage combined (also known as 'cradle to gate')
A4	Transport to the building site
A5	Installation into the building
B1	Use or application of the installed product
B2	Maintenance
B3	Repair
B4	Replacement
B5	Refurbishment
B6	Operational energy use
B7	Operational water use
C1	De-construction, demolition
C2	Transport to waste processing
C3	Waste processing for reuse, recovery and/or recycling
C4	Disposal
D	Reuse, recovery and/or recycling potentials
SOURCE/STANDARD/REFERENCE	
EN 15804:2012+A2:2019/AC:2021	

5.19. LcaDeclarationIndicator

LcaDeclarationIndicator	
Code	Description
MDE	Module declared
MND	Module not declared
MNR	Module not relevant
AGG	Only for stages A1, A2 and A3 - to indicate that results are aggregated (combined) under code A1-A3

5.20. ReasonNoValue

ReasonNoValue	
Code	Description
MV	Missing ETIM value (the alphanumeric feature is relevant, but no correct value exists in this ETIM version)
NA	Feature is not applicable for this product
UN	Unknown (currently, the data supplier is not able to deliver a specific value; but basically it is possible)



5.21. ItemStatus

ItemStatus	
Code	Description
PRE-LAUNCH	Item is not yet available (may be available to pre-order)
ACTIVE	Item is available to order
ON HOLD	Item is temporarily not available due to engineering issues and/or raw material shortage
PLANNED WITHDRAWAL	Item is no longer traded (or withdrawal is planned) but item may still be available from stock
OBSOLETE	Item is no longer available to order

5.22. ItemCondition

ItemCondition	
Code	Description
NEW	A new product is a product which has only just been manufactured (i.e. has not been used)
USED	A used product is a product which has already been in use
REFURBISHED	A refurbished product is a used product that has been specially processed in order to restore it to a condition close to its original condition.

5.23. NetDimensionUnit / PackagingTypeDimensionUnit

DimensionUnit	
Code	Description
CMT	Centimetre
DTM	Decimetre
KTM	Kilometre
MMT	Millimetre
MTR	Metre
FOT	Foot
INH	Inch
SMI	Mile (statute mile)
YRD	Yard
SOURCE/STANDARD/REFERENCE	
UN/ECE recommendation 20 - annex I	
FIELDS RELATED TO THIS CODE LIST	
NetDimensionUnit	
PackagingTypeDimensionUnit	



5.24. WeightUnit

WeightUnit	
Code	Description
GRM	Gram
KGM	Kilogram
MGM	Milligram
TNE	Metric ton
LTN	Imperial ton (long ton)
LBR	Pound
ONZ	Ounce (avoirdupois)
SOURCE/STANDARD/REFERENCE	
UN/ECE recommendation 20 - annex I	
FIELDS RELATED TO THIS CODE LIST	
NetWeightUnit	
PackagingTypeWeightUnit	

5.25. NetVolumeUnit

NetVolumeUnit	
Code	Description
LTR	Litre
MLT	Millilitre
MMQ	Cubic millimetre
MTQ	Cubic metre
FTQ	Cubic foot
INQ	Cubic inch



5.26. OrderUnit / UseUnit / PriceUnit

OrderUnit / UseUnit / PriceUnit			
Code	Description	Code	Description
ANN	Year	MIN	Minute
BE	Bundle	MLT	Millilitre
BG	Bag	MMK	Square millimetre
BO	Bottle	MMQ	Cubic millimetre
BX	Box	MMT	Millimetre
C62	One (unit)	MTK	Square metre
CA	Can	MTQ	Cubic metre
CI	Canister	MTR	Metre
CL	Coil	NMP	Pack
CMK	Square centimetre	NPL	Parcel
CMQ	Cubic centimetre	NRL	Roll
CMT	Centimetre	ONZ	Ounce (avoirdupois)
CQ	Cartridge	PA	Packet
CR	Crate	PF	Pallet (lift)
CS	Case	PK	Pack
CT	Carton	PL	Pail
D99	Sleeve	PR	Pair
DAY	Day	PU	Tray / tray pack
DR	Drum	RG	Ring
DZN	Dozen	RL	Reel
FOT	Foot	RO	Roll
FTQ	Cubic foot	SA	Sack
GRM	Gram	SEC	Seconds
HLT	Hectolitre	SET	Set
HUR	Hour	SMI	Mile (statute mile)
INH	Inch	ST	Sheet
INQ	Cubic inch	TN	Tin
KG	Keg	TNE	Metric ton
KGM	Kilogram	TU	Tube
KTM	Kilometre	WEE	Week
LBR	Pound	YRD	Yard
LTN	Imperial ton (long ton)	Z2	Chest
LTR	Litre	Z3	Cask
MGM	Milligram		
FIELDS RELATED TO THIS CODE LIST			
OrderUnit			
UseUnit			
AlternativeUseUnit			
PriceUnit			
SOURCE/STANDARD/REFERENCE			
A subset of the UN/ECE recommendation 20 is used: http://www.unece.org/			



5.27. AllowanceSurchargeType

AllowanceSurchargeType	
Code	Description
AAT	Rush delivery
ABL	Packaging surcharge
ADO	Efficient logistics
ADR	Other allowances/surcharges
ADZ	Direct delivery
AEM	Clerical or administrative services
AEO	Collection and recycling service
AEP	Copyright fee collection services
AEQ	Charge for exceeding agreed ordered quantity
CAI	Cutting charge
DAE	Distributor discount/allowance
DBD	Debtor bound (GS1 Code)
FC	Freight charge
HD	Handling
INS	Insurance
MAC	Minimum order/minimum billing charge
MAT	Material surcharge
PAD	Promotional allowance
PI	Pick-up allowance
QD	Bracket discount
RAD	Returnable container
SH	Special handling service
TD	Trade discount
WHE	Wholesaling discount (GS1 Code)
X21	Special agreement (GS1 Code)



5.28. PackagingTypeCode

PackagingTypeCode	
Code	Description
BE	Bundle
BG	Bag
BJ	Bucket
BO	Bottle
BR	Bar
BX	Box
C62	One (unit)
CA	Can
CL	Coil
CQ	Cartridge
CR	Crate
CS	Case
CT	Carton
CY	Cylinder
D99	Sleeve
DR	Drum
EV	Envelope
KG	Keg
NE	Unpacked
PA	Packet
PF	Pallet (lift)
PK	Pack
PL	Pail
PR	Pair
PU	Tray/tray pack
RG	Ring
RL	Reel
RO	Roll
SA	Sack
SET	Set
TN	Tin
TU	Tube
WR	Wrap
Z2	Chest
Z3	Cask

SOURCE/STANDARD/REFERENCE
A subset of the UN/ECE recommendation 20 is used: http://www.unece.org/ - Please note that code NE for "Unpacked" is defined in UN/ECE recommendation 21, in recommendation 20 NE = "Net litre"

6. Change log to previous version

In this chapter, all relevant (future) changes between versions of this guideline will be described.

Version 1.1 (changes listed compared to version 1.0)

- Corrected validation pattern for field “EtimFeatureCode”, that did not support feature codes for imperial units (EFxxxxx) or local standard features (like EFUKxxxx). Changed from “^EF[0-9]{6}\$” to “^EF([0-9]{6}|[0-9]{5}|[A-Z]{2}[0-9]{4})\$”. For ETIM MC, there are no local standard features, so validation pattern set to “^EF([0-9]{6}|[0-9]{5})\$”.
- Corrected validation pattern for field “SpecialProvisionId”. SP codes have either 2 or 3 digits. Was “^SP[0-9]{3,4}\$”, changed for now to “^SP[0-9]{2,4}\$” (because of backwards compatibility), will be changed to “^SP[0-9]{2,3}\$” in next major release.
- Corrected field length for “CustomsCommodityCode” Was 8-10 digits, now 6-16 digits. Requested for 11 digit Austrian codes, but changed now to allow for global use, where codes can range from 6 (just HS without local extension) to 16 in Mexico for specific items.
- In the guideline document, the fields PackagingQuantity and PackagingStackable were incorrectly listed as mandatory, changed that to optional.
- In the guideline document, the field LcaReferenceLifetime was incorrectly listed as optional, changed that to mandatory.
- Added passage to chapter 2.1 that if the guidelines document and/or elements overview differs from the schema, that the schema always prevails.
- Made a few textual corrections in the guidelines document.