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**GS1 Germany**

# Data Quality Excellence (GS1 DQX) – Release Notes

for release 25.08 on August 23, 2025

*Version 1.0 , July 2025*

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## Document information

Document Name	Data Quality Excellence (GS1 DQX) –Release Notes
Date of Last Change	July 8, 2025
Document Version	1.0
Document Status	First edition
Document Description	GS1 DQX Release Notes: Information about upcoming changes in the GS1 DQX Service

## Change history

Version	Date of change	Summary of change
1.0	July 8, 2025	First publication

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## 1 Visual validation of chemical formulas

From the August release on August 23, 2025, chemical formulas are expected to be identical to the product image in all alphanumeric visual validation attributes. Specifically, this means that subscript and superscript information must be entered in the data set identically to the product image/artwork, as a deviating entry leads to a deviation error and thus a red certificate. Additional or missing spaces are not evaluated for chemical formulas and are not commented on.

Examples of correct information:

Data set	Product image
Contains sodium fluoride (1000ppm F <sup>-</sup> ). OR Contains sodium fluoride (1000ppm F <sup>-</sup> ).	Contains sodium fluoride (1000ppm F <sup>-</sup> ).
Contains sodium fluoride (1000ppm F <sup>-</sup> ). OR Contains sodium fluoride (1000ppm F <sup>-</sup> ).	Contains sodium fluoride (1000ppm F <sup>-</sup> ).

Example of incorrect information:

Data set	Product image
Contains sodium fluoride (1000ppm F <sup>-</sup> ).	Contains sodium fluoride (1000ppm F <sup>-</sup> ).

There is already a tolerance for the analysis extract for mineral water, which will continue to exist. This stipulates that in the statement of the analytical composition of the mineral water, stating the characteristic constituents (analytical extract), the additional chemical notation may be omitted compared to the product image if the formulated constituents are stated. If the chemical formula is stated, it must also be stated identically to the product image/artwork with superscript/subscript elements.

Examples of correct information:

Data set	Product image
Sodium (Na <sup>+</sup> ) 12mg/l Magnesium (Mg <sup>2+</sup> ) 54 mg/l Sulphate (SO <sub>4</sub> <sup>2-</sup> ) 21.6 mg/l OR Sodium 12mg/l Magnesium 54 mg/l Sulphate 21.6 mg/l	Sodium (Na <sup>+</sup> ) 12mg/l Magnesium (Mg <sup>2+</sup> ) 54 mg/l Sulphate (SO <sub>4</sub> <sup>2-</sup> ) 21.6 mg/l

Examples of incorrect information:

Data set	Product image
Sodium (Na <sup>+</sup> ) 12 mg/l Magnesium (Mg <sup>2+</sup> ) 54 mg/l Sulphate (SO <sub>4</sub> <sup>2-</sup> ) 21.6 mg/l	Sodium (Na <sup>+</sup> ) 12 mg/l Magnesium (Mg <sup>2+</sup> ) 54 mg/l Sulphate (SO <sub>4</sub> <sup>2-</sup> ) 21.6 mg/l

These exact visual validation specifications can be found from the August release in the GS1 DQX Kompendium in the download area at <https://www.gs1-germany.de/produkte-services/stammdaten/produktdatenmanagement/download-center/>.

Please always refer to the latest version of the GS1 DQX Kompendium. Updates to the validation specifications of visual-validation-relevant attributes are continuously communicated. A corresponding change history can be found in chapter 7 of the GS1 DQX Kompendium.

## 2 New codes in the visual validation extension of the attribute "Packaging marked label accreditation code [M309]"

Since June 2022, attribute-dependent incorrect missing data has been reported as part of the visual validation if the corresponding information is available on the product images/artworks relevant to the visual validation but is not present in the corresponding attribute. This aspect of the visual validation (in the validation direction from the product images/artworks to the data set) is called visual validation extension. The visual validation extension enables a validation of the completeness of data sets.



**Important:** The visual validation extension only applies if information is already present in the respective attribute. Unfilled attributes are still not visually validated by GS1 DQX in this first phase. Further information, e.g. which attributes are currently visually validated by means of the visual validation extension, can be found in chapter 2.2.3.1 of the GS1 DQX Kompendium, available for download at <https://www.gs1-germany.de/produkte-services/stammdaten/produktmanagement/download-center/>.

The GS1 DQX PCO Expertengruppe has decided for the August release 25.08 on August 23, 2025 to include the following 11 new codes in the visual validation extension of the attribute "Packaging marked label accreditation code [M309]":

- ECC\_HALAL
- HALAL\_AHF
- HALAL\_HTO
- HALAL\_ISWA\_HCD
- GMO\_FREE\_SK
- CPK
- CPK\_BIO
- FAMBRAS\_HALAL
- NORTH\_AMERICAN\_KOSHER
- RADURA
- THAI\_HOM\_MALI\_RICE\_CERTIFICATION

Another 5 codes will follow with the November release 25.11 on November 15, 2025:

- CLIMATE\_ACTIVATOR
- NRW\_CERTIFIED\_QUALITY
- ORIGIN\_MARK\_GERMANY
- QM\_MILCH\_PLUS\_PLUS
- QM\_MILCH\_PLUS\_PLUS\_PLUS\_PLUS

All codes that are currently already part of the validation extension of "Packaging marked label accreditation code [M309]" are highlighted in color in the GS1 DQX Prüferweiterungs-Mapping (visual validation extension mapping). The new codes announced above are highlighted in red font in version 2.7 of the document. The latest version of the GS1 DQX Prüferweiterungs-Mapping, which provides information on which information in the attributes "Packaging marked label accreditation code [M309]", "Compulsory additive label information [M094]" and "Consumer storage instructions [M362]" are part of the visual validation extension, is available in the download area at <https://www.gs1-germany.de/produkte-services/stammdaten/produktmanagement/download-center/>.

### 3 Adjustments to the visual validation of communication channel attributes

#### 3.1 Exclusion of food products from the visual validation of the communication channel attributes

With the August release 25.08, the attributes "Communication channel code [M377]" and "Communication channel: link [M376]" are no longer visually validated for food products. The decision to exclude them from the visual validation was made by the GS1 DQX PCO Expertengruppe. In the case of food products, these attributes often contain voluntary information that cannot be found on the product packaging and therefore cannot be visually validated.

All GPC classes and bricks excluded from the visual validation scope for the attributes "Communication channel code [M377]" and "Communication channel: link [M376]" can be found in the GS1 DQX Prüfmatrix 1.54. The document is available in the download area at <https://www.gs1-germany.de/produkte-services/stammdaten/produktmanagement/download-center/>.

#### 3.2 Announcement: Introduction of the check for the indication of at least one communication channel from the product image for pet food & detergents from January 2026

For the **product areas detergents and pet food**, the packaging reference in the FMCG target market profile will specify from the August 25 release that at least one communication channel must be provided via GDSN master data exchange in the attributes "Communication channel: Code [M377]" and "Communication channel: Connection [M376]".

It has been agreed with the GS1 DQX PCO expert group that, as part of the visual validation **from January 5, 2026**, it will be identified whether at least one communication channel identical to the product image is maintained for detergents and pet food. If an entry is found in the data set but does not correspond to the product image, this will be evaluated as an error.

##### Example of missing data for detergents or pet food

**Example:** The attributes "Communication channel: Code [M377]" and "Communication channel: Connection [M376]" contain a telephone number that is not listed on the product image.

Data set	Product image
TELEPHONE 01234-56789	09876-54321 www.beispiel.de

Result of extended visual validation: At least one of the entries "TELEPHONE" + "09876-54321" or 'WEBSITE' + "www.beispiel.de" is expected in the data set from the product image.

- Evaluation: Error (= red GS1 DQX certificate)

## Contact

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