

## Migros Data Access

### Logins for Data Access

You can get your credentials by filling out [this form](#).

### Migros Product Data

The product data consists of 2 ZIP files (7z) with data of Migros products in JSON format: /products/products\_de.7z for product data with German texts, whereas the file /products/products\_en.7z contains the product data with English texts, as far as there are English texts available. Mostly, when no English text is available, the texts are in German as a fallback.

Each file within the ZIP file represents the data for one product.  
The filename is the Migros article number of the product.

### Model Structure

The structure of the JSON in each file is defined in the file openapi.yaml as an [OpenAPI](#) specification.

You can visualize this file on <https://editor.swagger.io/> if you like.

Not every product has all the fields described in the specification.  
There might also be fields in the specification which no product has set.

### CO<sub>2</sub> Data

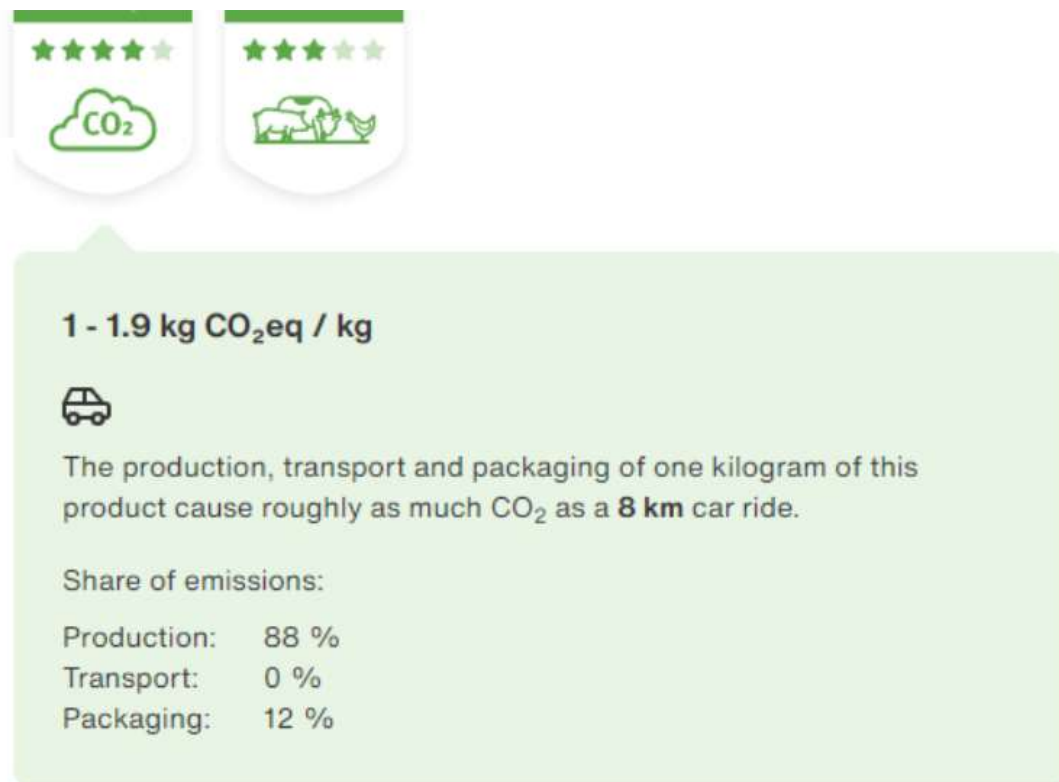
Most food products have CO<sub>2</sub> data. Those data can be found in the object «co2\_compensation». The value of «co2\_compensation.kg\_co2» tells you how much CO<sub>2</sub> emissions have been caused by this product for production, transport and packaging. The field «co2\_compensation.kg\_co2\_compensation» has the same value, unless the product got paid to offset the carbon footprint.

### Data for M-Check sustainability scale

Every food product from a Migros-owned brand has some M-Check sustainability data. Those data can be found in the object «m\_check2», and it includes its CO<sub>2</sub> footprint, including the CO<sub>2</sub> percentage through production, packaging and transportation. Additionally, it also contains an "animal welfare" rating.

Here is a visual representation of those data:

## M-Check



(Source: <https://www.migros.ch/en/product/204541300000>)

## Circularity and Material Health

The file "Dimension\_circularity.csv" consists of the following data for selected non-food articles (Migros owned brands):

Column 'Material\_health': This data indicates how environmentally friendly the ingredients are 5 star(\*\*\*\*\*) is best.

Column 'Circularity': This data indicates how recyclable the ingredients are 5 star(\*\*\*\*\*) is best.

Column 'Product\_number': Migros article number

Column 'Product\_description': Product description

## Fish

The file "Fish.csv" consists of the following data for selected fish articles (Migros owned brands):

Column 'Product\_number': Migros article number

Column 'Product\_description': Product description

Column 'M-Check Fisch': Rating to what extent fish and seafood are caught and produced in a way that preserves wild stocks and ecosystems in the long term '5' is best.

## Packaging

The file "M-Check\_packaging.csv" consists of the following data for selected articles (Migros owned brands):

Column 'Product\_number': Migros article number

Column 'Product\_description': Product description

Column 'M-Check Packaging': Rating how environmental friendly the packaging is '5' is best.

## Migros Shopping Cart Data

The shopping cart data consists of 20 CSV files with shopping cart / sales data from the past 20 months from anonymized customers.

In total the files contain the purchases of 10'000 households. Each household is uniquely (even accross files) identified by the `KundeID`. Each shopping cart is uniquely identified by the combined key YYYYMM-KundeID-WarenkorbID.

Each file is a sample of the sales of one month.

Each file contains 10 columns:

`YYYYMM`: reflects the filename and is year and month

`KundeID`: anonymised household number

`WarenkorbID`: a per-file, per-household sequence number

`ProfitKSTID`: shop ID

`ProfitKSTNameD`: shop name

`GenossenschaftCode`: cooperative ID

`TransaktionDatumID`: date of purchase in the form YYYY-MM-DD

`TransaktionZeit`: time of purchase (local time) in the form (H)HMMSS

`ArtikelID`: Migros product number

`Menge`: contains the amount bought: This might be in pieces or kilogram, depending on the article (meter or square meter are possible too but both are uncommon).

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# MIGROS

## Einkaufen mit der Migros App



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