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BSI Standards Publication

# Traceability of molluscan products — Specifications on the information to be recorded in farmed molluscan distribution chains

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**National foreword**

This British Standard is the UK implementation of ISO 18538:2015.

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**Traceability of molluscan products —  
Specifications on the information  
to be recorded in farmed molluscan  
distribution chains**

*Traçabilité des mollusques — Spécifications des informations à  
enregistrer dans les chaînes de distribution de mollusques en ferme*





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## Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work. In the field of information technology, ISO and IEC have established a joint technical committee, ISO/IEC JTC 1.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 234, *Fisheries and aquaculture*.

## Introduction

There are increasing demands for detailed information on the nature and origin of food products. Traceability is becoming a legal and commercial necessity.

The ISO definition of traceability concerns the ability to trace the history, application, and location of that which is under consideration and for products, this can include the origin of food materials and non-food parts; thereof, the processing history and the distribution and location of the product after delivery. Traceability includes not only the principal requirement to be able to physically trace products through the distribution chain from origin to destination and vice versa, but also to be able to provide information on what they are made of and what has happened to them. These further aspects of traceability are important in relation to food safety, quality, and labelling.

The scheme specified in this International Standard does not demand perfect traceability, i.e. that a particular retail product should be traceable back to a hatchery and or farm and batch of origin. Pragmatically, it is recognized that mixing of animals or materials is often commercially necessary at a number of stages in the distribution chains, e.g. in grading at first sale prior to sale and in the processing of raw materials into products. As a result, there will be occasions where whole chain traceability of materials and products is neither possible nor commercially practical. These limitations are to be recognized and taken into consideration when auditing against this International Standard and are not to preclude compliance so as to disadvantage, otherwise compliant operators. Where such mixing necessarily occurs, the food business shall generate a trade unit or units only from the point that identification of units is possible. The requirement for traceability is that the business records the IDs of created or received trade units that can be input into each subsequently created unit, thereafter and vice versa. The particular product or products are then traceable through the supply chain (as far as is practical) to generate information on the maximum number of stages of the chain as possible.

Given the variety of molluscan products and of their distribution chains that operate within and between different countries and varying legal requirements, the information specifications cannot itemise all the information that may possibly be required in every situation. This International Standard provides a generic basis for traceability. Flexibility is allowed for businesses to record further information in their own non-standardised files, but keyed to the same unit IDs.

The information remains in the ownership of the food business that generated it, but is available when required by law for the purposes of traceability (in the event of a food safety problem) or by commercial agreement between businesses. The structure, names, and content of the information is standardised so that it can be readily communicated from business to business through the distribution chains ensuring common understanding of terms and meanings.

Commercial arrangements for businesses to communicate information through the distribution chains are to be encouraged, particularly for the information desired by the trade to be visible at the various transaction points in the chains, but that is not the subject of this International Standard.

Though this International Standard is designed with electronic representation and communication of data in mind, the specifications can be met by paper systems.





# Traceability of molluscan products — Specifications on the information to be recorded in farmed molluscan distribution chains

## 1 Scope

This International Standard specifies the information to be recorded in farmed molluscs supply chains (excluding cephalopods) in order to establish the traceability of products originating from farm-raised molluscs. It specifies how molluscan products traded are to be identified and the information to be generated and held on those products by each of the food businesses that physically trade them through the distribution chains. It is specific to the distribution for human consumption of molluscs and their products from farm through to retailers or caterers.

The types of businesses identified in this International Standard for farmed molluscan distribution chains are the following:

- farming;
  - a) broodstock suppliers/natural seed collectors;
  - b) hatcheries and nurseries;
  - c) molluscan farm;
  - d) harvesting;
- depuration and shucking etc.;
- processors;
- transporters and store operators;
- traders and wholesalers;
- retailers and caterers;
- logistics including materials brought from other domains;
- feed production.

Any given molluscan distribution chain can be made up of some or all of the above components, but not necessarily in the sequence listed.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 8601, *Data elements and interchange formats — Information interchange — Representation of dates and times*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

**3.1**  
**traceability**

ability to trace the history, application, or location of that which is under consideration

Note 1 to entry: When considering product, traceability can relate to:

- the origin of materials and parts,
- the processing history, and
- the distribution and location of the product after delivery.

[SOURCE: ISO 9000:2005, 3.5.4, modified]

**3.2**  
**unique logistic unit identifier**  
**ULUI**

any composition established for transport and/or storage that needs to be identified and managed through the supply chain

**3.3**  
**unique trade unit identifier**  
**UTUI**

smallest unit which is guaranteed to retain its integrity as it moves from one link of the chain to the next

Note 1 to entry: It is the smallest unit that is kept whole and undivided with no change in content or label/identification.

**3.4**  
**molluscan**

invertebrate animal belonging to the phylum Mollusca

Note 1 to entry: A molluscan has a soft unsegmented body and is covered by a calcium carbonate shell of one to eight parts or sections. In some species, the shell is lacking or reduced. Major cultured molluscs are mussels, oysters, scallops, cockles, clams (bivalves), and abalone (gastropod).

**3.5**  
**molluscan products**

products prepared out of molluscs or parts thereof

**3.6**  
**relaying**

removal of bivalve molluscs from a microbiologically contaminated growing area to an acceptable growing or holding area under the supervision of the agency having jurisdiction and holding them there for the time necessary for the reduction of contamination to an acceptable level for human consumption

**3.7**  
**depuration**

reduction of microorganisms to a level acceptable for direct consumption by the process of holding live bivalve molluscs for a period of time under approved controlled conditions in natural or artificial seawater suitable for the process which may be treated or untreated

**3.8**  
**heat shocking**

process of subjecting bivalve molluscs in the shell to any form of heat treatment such as steam, hot water, or dry heat for a short period to facilitate rapid removal of meat from the shell for the purpose of *shucking* (3.9)

**3.9**  
**shucking**

process of removing the meat from the shell

## 4 Abbreviations

In this International Standard, the following abbreviations apply:

|       |  |
|-------|--|
| ACC   | Aquaculture Certification Council  |
| CAC   | Codex Alimentarius Commission  |
| EPC   | Electronic Product Code, a unique number provided by GS1 used to identify instances of trade items (individual trade units) particularly suited for representation in an RFID chip   |
| FAO   | The Food and Agriculture Organization of the United Nations  |
| FBO   | Food Business Operator, generic term for someone in the supply chain who processes, sends or receives relevant trade units or logistic units   |
| GAqP  | Good Aquaculture Practices   |
| GLN   | Global Location Number, a 13-digit globally unique number provided by GS1 used to identify parties and physical locations  |
| GMP   | Good Manufacturing Practice  |
| GS1   | Global non-profit organization dedicated to the design and implementation of global standards and solutions to improve the efficiency and visibility of supply and demand chains globally and across sectors; previously EAN/UCC |
| GTIN  | Global Trade Item Number, an 8- to 14-digit globally unique number provided by GS1 used to identify types of trade items (product types)   |
| HACCP | Hazard Analysis Critical Control Points  |
| HS    | Harmonized Commodity Description and Coding System   |
| LU    | Logistic Unit  |
| OIE   | World Organization for Animal Health   |
| RFID  | Radio-Frequency Identification, the use of an object (typically referred to as an RFID tag) applied to or incorporated into a product for the purpose of identification and tracking using radio waves                           |
| RFMO  | Regional Fisheries Management Organization   |
| SGTIN | Serialized Global Trade Item Number, a unique number provided by GS1 used to identify instances of trade items (individual trade units) by extending the GTIN  |
| SSCC  | Serial Shipping Container Code, an 18-digit globally unique number provided by GS1 used to identify logistics units  |
| TU    | Trade Unit   |
| UI    | Unique Identifier  |
| ULUI  | Unique Logistic Unit Identifier  |
| UTUI  | Unique Trade Unit Identifier   |

## 5 Principle

The fundamental principle of chain traceability is that trade units (TU) shall be identified by unique codes (UI). This code may be globally unique in itself (for instance, the GS1 SGTIN or EPC numbers) or it could be unique in that particular scope only which means that it should be no other TUs in that part of the chain that can have the same number. If the scope (the product type, the company, the chain, the sector, the country, or similar) is assigned a globally unique number, the combination of the globally unique scope number and the locally unique TU number shall constitute a globally unique identifier for the TU.

NOTE 1 The UTUI term is introduced to indicate a TU identifier which is or can be made globally unique.

Trade units (TUs) can be grouped together to make logistic units (LUs) or LUs can be grouped together to make higher level LUs. A fundamental principle of chain traceability is that logistic units shall be identified by a unique code. This code shall be a national code which can be globally unique in itself (similar to the GS1 SSCC code) or it could be unique in that particular scope only, which means that there should be no other LUs in that part of the chain that may have the same number. If the scope (the product type, the company, the chain, the sector, the country) is assigned a globally unique number, the combination of the globally unique scope number and the locally unique LU number shall constitute a globally unique identifier for the LU.

NOTE 2 The ULUI term is introduced to indicate a LU identifier which is or can be made globally unique.

The key to the operation of this traceability scheme is the labelling of each unit of goods traded, whether of raw materials or finished products, with a unique ID. This shall be done by the food business that creates each unit. Businesses that transform units such as processors who convert the units of raw materials received into the products dispatched shall create new units and shall give them new IDs.

As indicated above, the simplest way of implementing UTUIs and ULUIs is to use the GS1 SGTIN/EPC and SSCC codes. This practice is recommended, but is not mandatory. The central principle behind this International Standard is that businesses which create TUs or LUs should assign unique numbers to them.

Each of the food businesses that create or physically trade in those units throughout the distribution chains from catcher through to retailer or caterer shall generate and hold the information necessary for traceability. The information is to be held on paper or electronically, keyed to the unit IDs.

## 6 Requirements

### 6.1 Identification of the units traded

Businesses that bring in supplies of farmed molluscan products from outside of the domain of the specifications and trade them onwards shall identify each unit traded and record associated information elements as indicated in [Table 3](#) to [Table 12](#).

### 6.2 Recording of information

To distinguish between the different categories of information, all information elements are classified as either “shall”, “should”, or “may” with definition (see [Table 1](#)).

**Table 1 — Classification of informative elements**

|          | <b>Definition</b>   | <b>Explanation</b>  |
|----------|---|---|
| “shall”  | This category contains recordings related to identifiers and transformations that is necessary in order to trace the history, application, or location of an entity. This means the unique identity of trade and logistic units, as well as the dependencies between the identifiers of inputs and outputs in a process.  | “shall” elements are data elements that are deemed necessary to record to ensure that traceability is possible. Data elements relating to product properties are not in this category even if these properties are essential for other purposes like product documentation or food safety.  |
| “should” | This category contains parameters that describe and provide supporting information on the units being traced. Common parameters required by law, commercial requirements, or good manufacturing practises are recorded, but only where an established international format or data list for the value exists.   | This includes parameters like “species”, “production date”, etc. If certification according to this International Standard is to happen in the future, the “should” parameters are to be considered.  |
| “may”    | This category contains parameters that describe and provide supporting information on the units being traced. It contains parameters that are not part of the “should” category, but that may still be useful or relevant to record. It also contains parameters that may be deemed important, but where no established international format or data list exists. | The “may” category is informative only and it is included to enable use and uptake of the standard. If certification according to this International Standard is to happen in the future, the recording of “may” parameters are not to be considered when evaluating adherence. The list of “may” elements is not definitive or exclusive. It is by design extendible and the threshold for including new elements in this category is low. |

Businesses that physically trade in molluscan products shall generate and hold the required information appropriate to the type of business for each of the units traded. The detailed information requirements are tabulated in [Table 2](#).

**Table 2 — Information requirements to be recorded by the different businesses**

| <b>Food business operator (FBO) type</b>                           | <b>Table</b> | <b>Data prefix<sup>a</sup></b> | <b>Receive</b> | <b>Transform</b> | <b>Create/produce</b> | <b>Dispatch</b> |
|--|--------------|--------------------------------|----------------|------------------|-----------------------|-----------------|
| Brood stock suppliers/natural seed collectors                      | 3            | MBR                            | -              | -                | TU/LU                 | TU/LU           |
| Hatcheries/nurseries   | 4            | MHA                            | TU/LU          | Yes              | TU/LU                 | TU/LU           |
| Molluscan farms  | 5            | MFF                            | TU/LU          | Yes              | TU/LU                 | TU/LU           |
| Processors   | 6            | MPR                            | TU/LU          | Yes              | TU/LU                 | TU/LU           |
| Live molluscan transporters  | 7.1          | MTR                            | TU/LU          | Yes              | TU/LU                 | TU/LU           |
| Transporters and cold store operators for molluscs other than live | 7.2          | MTS                            | TU/LU          | No               | LU                    | TU/LU           |
| Traders and wholesalers  | 8            | MTW                            | TU/LU          | No               | TU/LU                 | TU/LU           |
| Retailers and caterers   | 9            | MRC                            | TU/LU          | Yes              | TU/LU                 | —               |
| Bringing in materials from outside the domain                      | 10           | MOT                            | TU/LU          | —                | TU/LU                 | TU/LU           |
| Feed production  | 11           | MFE                            | TU/LU          | Yes              | TU/LU                 | TU/LU           |

<sup>a</sup> For the purpose of unique identification to establish an extendable framework for data element identification, each table has been identified with a three letter alphanumeric code. This code plus three digits is used to give a unique number to each data element.

The information specifications separately tabulate the information to be recorded by each of these types of business. Some businesses may carry out the functions of more than one of the types listed,

for example, distribution businesses can act as wholesalers and as transporters in which case those businesses shall record the relevant information requirements for each of the functions carried out.

NOTE 1 This International Standard is limited in scope to the distribution for human consumption of molluscs and their products. The molluscs information specifications are substantially the same from processing onward.

Pragmatically, it is recognized that some supplies of molluscan products and supplies of ingredients, etc. will come from outside of the domain and may lack the required IDs and information records. To accommodate this, a business that brings in molluscs and materials from outside of the domain is required to generate and hold the key information necessary for the traceability of the units brought in and if they are to be traded on to label those units with the required IDs.

NOTE 2 These specifications are designed with electronic representation and communication of data in mind, but this is not a requirement when using the International Standard. The specifications can also be met by paper systems.

Note that the specification is for data to be generated, recorded, and stored at the respective link. For all links, except “Breeders”, relevant data shall be generated in a previous link in the supply chain and passed along with the trade unit/logistic unit.

NOTE 3 In these tabulations, there is no repetition of the information originally recorded to describe the units created and their history, although businesses receiving those units later in the distribution chain will often need some of that information. The information is keyed to the unit IDs and can be supplied by commercial agreement between the businesses without having to re-input the data.

### 6.3 Controlled relaying and depuration

Bivalve molluscs concentrate contaminants from the water column in which they grow. These contaminants may then cause illness to humans when the bivalves are eaten. Depuration is effective in removing many faecal contaminants from shellfish. Depuration means the reduction of microorganisms sand and other contaminants to a level acceptable for direct consumption by the process of holding live bivalve molluscs for a period of time under approved controlled conditions in natural or artificial sea water suitable for the process which may be treated or untreated. Relay systems (natural or in containers) and land-based depuration establishments are efficient methods of achieving microbiologically safe bivalve molluscs that are harvested from approved areas. Each registered facility that depurates or relays molluscs should follow their quality management program and appropriate documentation should be maintained for the process. The details of traceability of depuration process are shown in [Table 5](#).

### 6.4 Broodstock supplier and natural seed collectors/suppliers

For the purposes of this International Standard, broodstock suppliers are considered to be establishments/self help groups/farmer groups/fisherman that produce/collect broodstocks that are supplied to hatcheries for further maturation and production of spat. They may carry out basic operations like collection and maintenance of broodstock under good management practices in a sustainable way.

Prior to dispatch, broodstock suppliers can carry out their own operations or get it done through approved agencies/laboratories for absence of OIE-listed diseases, quality, grading, etc.

The trade units created by broodstock suppliers can range from a few hundred to several thousand passed into the hands of the next food business, i.e. hatcheries.

For the purposes of this International Standard, natural seed collectors/suppliers are considered to be establishments that produce/collect seeds from natural sources that are supplied to farms for further maturation. They may carry out basic operations like collection and maintenance of natural seed in a responsible way to ensure sustainability.

**Table 3 — Detailed information for broodstock suppliers and natural seed collectors/suppliers**

| Data element   | Description                            | Examples  | Categorization   |        |     |   |
|--|--|---|--|--------|-----|---|
|  |  |   | Shall  | Should | May |   |
| <b>BROODSTOCK SUPPLIERS AND NATURAL SEED COLLECTORS/SUPPLIERS</b>                              |  |   |  |        |     |   |
| MBR101   | Food business ID                       | Unique national identification number for the unit plus country prefix or name and address of the group/business that operates maintenance of broodstock (either indigenous or exploited) | Name, reg. no., and country prefix   | x      |     |   |
| MBR102   | Broodstock supplier establishment ID   | Unique national identification number for the group/unit/organization plus country prefix or name and address of the broodstock supplier  | Women self-help group, Padanna, Kasargod, Kerala (bivalve spat suppliers)                          | x      |     |   |
| MBR103   | Broodstock supplier GAqP certification | Any quality certification available   | Norms suggested by National Competent Authority and aligned to codex GAqP                          |        |     | x |
| MBR104   | Natural seed collector                 | Unique national identification number for the group/unit  | Mahesh, Moothakunnam. N.paravur  | x      |     |   |
| MBR105   | Location                               | Specific location   | Njarakkal, Vypin, Kerala, India  | x      |     |   |
| MBR106   | Area of relaying                       | RFMO or more specific location  | Vypin  | x      |     |   |
| MBR150-  | (unassigned)                           | Further information elements that describe the breeder, linked to broodstock supplier ID  | Certified wild broodstock bank   |        |     | x |
| <b>FOR EACH TRADE UNIT CREATED</b>   |  |   |  |        |     |   |
| <b>Identity</b>  |  |   |  |        |     |   |
| MBR201   | Unit ID                                | UTUI  | ID can be created for a batch with national prefix depending up on the area and time of collection | x      |     |   |
| <b>Description</b>   |  |   |  |        |     |   |
| MBR202   | Species                                | LAT- followed by Latin name or FAO- followed by FAO 3alpha code or TSN- followed by taxonomic serial number (may be repeated if several species)  | LAT- <i>Perna viridis</i><br>FAO:MSV<br>TSN:3161003202   |        | x   |   |
| MBR203   | Area/ country of origin                | FAO area/RFMO area of the broodstock if captured from wild or country of origin for broodstock from farmed stock or more specific location  | 51   | x      |     |   |
| In case of broodstock collectors from wild, this requirement will be scored in the may column. |  |   |  |        |     |   |

**Table 3 (continued)**

| Data element   |                               | Description   | Examples   | Categorization |        |     |
|--|-------------------------------|---|--|----------------|--------|-----|
|  |                               |   |  | Shall          | Should | May |
| MBR204   | Health quality checks         | Type of checks and measured results physical and microbiological or clinical signs  | OIE-listed pathogens eg. <i>Perkinsus marinus</i> (bivalve) oyster velar disease                               |                |        | x   |
| MBR205   | GMO                           | Use of GMO in production or in feeding of broodstock<br>Yes/No  | No   |                |        | x   |
| <b>Production history</b>  |                               |   |  |                |        |     |
| MBR206   | Farm unit ID                  | ID no. of broodstock producer   | M/S XYZ hatchery followed by unique national identification number   | x              |        |     |
| MBR207   | Broodstock maintenance record | Record showing water temperature, salinity, prophylaxis, water flow, and other water quality parameters of broodstock maintenance to be kept by broodstock supplier | Temperature 22 °C, salinity 28 ppt, water quality for aquaculture as per IS, ECO - PRO, OXY -MORE, Detrodigest |                |        | x   |
| MBR208   | Feeding record                | Live feed as per growth requirement   | Telenet, 12 pollock street, Cacus, W.Bengal, India   |                |        | x   |
| <b>Additional data</b>   |                               |   |  |                |        |     |
| MBR250-  | (unassigned)                  | Further information elements that describe the created trade unit, linked to UTUI   |  |                |        | x   |
|  |                               | FOR EACH LOGISTIC UNIT CREATED  |  |                |        |     |
| <b>Identities</b>  |                               |   |  |                |        |     |
| MBR301   | Unit ID                       | ULUI  | Unique national identification number or GSI number for the logistic unit                                      | x              |        |     |
| MBR302   | Trade unit IDs                | The IDs of the trade units within the logistic unit   | Unique national identification number or GSI number for the trade unit   | x              |        |     |
| <b>Additional data</b>   |                               |   |  |                |        |     |
| MBR350-  | (unassigned)                  | Further information elements that describe the created logistic unit, linked to ULUI  |  |                |        | x   |
| <b>FOR EACH UNIT DISPATCHED (either as a logistic unit or a separate trade unit)</b>           |                               |   |  |                |        |     |
| <b>Identity</b>  |                               |   |  |                |        |     |
| MBR401   | Unit ID                       | ULUI (if dispatched as a logistic unit) or UTUI (if dispatched as a separate trade unit)  |  | x              |        |     |
| In case of broodstock collectors from wild, this requirement will be scored in the may column. |                               |   |  |                |        |     |



Table 3 (continued)

| Data element   |                           | Description   | Examples   | Categorization |        |     |
|--|---------------------------|---|--|----------------|--------|-----|
|  |                           |   |  | Shall          | Should | May |
| <b>Destination</b>   |                           |   |  |                |        |     |
| MBR402   | Next food business ID     | Unique national identification number for the hatchery plus country prefix and address            | Unique national identification number/ GS1 and CMFRI, edible oyster hatchery, Narakkal, Cochin, Kerala | x              |        |     |
| MBR403   | Date and time of dispatch | Date and time of transfer to next food business, ISO 8601 format                                  | 2010-09-25T12:15   |                | x      |     |
| <b>Additional data</b>   |                           |   |  |                |        |     |
| MBR450-  | (unassigned)              | Further information elements that describe the dispatched trade/logistic unit linked to UTUI/ULUI |  |                |        | x   |
| In case of broodstock collectors from wild, this requirement will be scored in the may column. |                           |   |  |                |        |     |

## 6.5 Hatcheries/nurseries

For the purposes of this International Standard, hatcheries/nurseries are considered to be businesses that receive broodstock, maintain them, induce spawning, and produce spat and dispatch to other hatcheries/molluscan farms for further rearing.

The hatcheries/nurseries may change the nature of molluscan products by carrying out operations such as feeding, grading, treatments, etc. Hatcheries/nurseries create new trade units that can range from a few thousands to several million spat passed into the hands of the next food business.

Table 4 — Detailed information for hatcheries including nurseries

| Data element   |                                   | Description  | Examples  | Categorization |        |     |
|--|-----------------------------------|--|---|----------------|--------|-----|
|  |                                   |  |   | Shall          | Should | May |
| <b>HATCHERY/NURSERY</b>  |                                   |  |   |                |        |     |
| MHA101   | Hatchery/nursery establishment ID | Unique national identification number for the hatchery plus country prefix or name and address of the food business that operates hatchery establishment | Unique national identification number/ GS1 and National Competent Authority, edible oyster hatchery, Narakkal, Cochin, Kerala | x              |        |     |
| MHA102   | Hatchery/Nursery GAqP             | Name(s) of quality or food safety GAqP schemes by which hatchery is certified  | Certification by National Competent Authority<br>FAO GAqP Hatchery<br>HACCP   |                |        | x   |
| <b>FOR EACH UNIT RECEIVED</b>  |                                   |  |   |                |        |     |
| <b>Identities</b>  |                                   |  |   |                |        |     |
| MHA201   | Unit ID                           | ULUI (if received as a logistic unit) or UTUI (if received as a separate trade unit)   | 40065300555555568   | x              |        |     |
| MHA202   | Trade unit IDs                    | If received as a logistic unit, the IDs of the trade units within the logistic unit  | 40065300555555570<br>40065300555555571<br>40065300555555572   | x              |        |     |
| a The same unique ID for raw material/product will continue if there is no transformation. |                                   |  |   |                |        |     |

**Table 4** (continued)

| Data element  |                                | Description  | Examples   | Categorization |        |     |
|---|--------------------------------|--|--|----------------|--------|-----|
|   |                                |  |  | Shall          | Should | May |
| <b>Source</b>   |                                |  |  |                |        |     |
| MHA203  | Previous food business ID      | Unique national identification number for the broodstock supplier plus country prefix or name and address of the food business that operates breeding company or transporter | 40065300555555571<br>M/S XYZ, edible oyster hatchery, Cochin, Kerala | x              |        |     |
| MHA204  | Date and time of reception     | ISO 8601 format/movement records   | 2010-11-23T0.10:10   |                | x      |     |
| <b>Control checks (either on logistic or separate trade units)</b>                                    |                                |  |  |                |        |     |
| MHA205  | Temperature check              | Temperature (°C) in UTUI or ULUI received  | 24 °C  |                | x      |     |
| MHA206  | Survival record                | Mortality of broodstock, spat in %   | 20 %, etc.   |                |        | x   |
| MHA207  | Quality control checks         | Type of checks and measured results or indication if records are available in electronic form, on paper, or not available  | Test results for OIE listed diseases/paper                           |                |        | x   |
| <b>Transformation information</b>   |                                |  |  |                |        |     |
| MHA208  | Related created trade unit IDs | List of IDs of created trade units that may incorporate part of this   | Unique national ID/GS1 number  | x              |        |     |
| MHA209  | Fractions                      | Fraction of received trade unit that go into each created unit   | UTUI-1 33 %, UTUI-2 33 %, UTUI-3 33 %, etc.                          |                | x      |     |
| <b>Additional data</b>  |                                |  |  |                |        |     |
| MHA250-   | (unassigned)                   | Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI   |  |                |        | x   |
| <b>FOR EACH NEW TRADE UNIT CREATED</b>  |                                |  |  |                |        |     |
| <b>Identity</b>   |                                |  |  |                |        |     |
| MHA301  | Unit ID                        | ULUI (if dispatched as a logistic unit) or UTUI (if dispatched as a separate trade unit)   | Unique national ID/GS1 number  | x              |        |     |
| <b>Description</b>  |                                |  |  |                |        |     |
| MHA302  | Hatching date                  | Date of hatching   | Date of hatching in ISO 8601 format, yyyy-mm-dd                      |                |        | x   |
| MHA303  | Age                            | Number of days after hatching  | Larvae three days old  |                |        | x   |
| <b>Production history</b>   |                                |  |  |                |        |     |
| MHA304  | Spat tank ID                   | Spat rearing tank number of the rearing unit/nursery unit  | 20   |                | x      |     |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |                                |  |  |                |        |     |

Table 4 (continued)

| Data element  |                                      | Description   | Examples  | Categorization |        |     |
|---|--------------------------------------|---|---|----------------|--------|-----|
|   |                                      |   |   | Shall          | Should | May |
| MHA305  | GAqP records                         | Records of disinfection of reservoirs, water filtration units, rearing tanks, etc., or indication if records are available in electronic form, on paper, or not available | Paper/electronic  |                |        | x   |
| MHA306  | Disease record                       | Records of names and period of diseases or indication if records are available in electronic form, on paper, or not available   | Paper   |                |        | x   |
| MHA307  | Treatment record                     | Medicine or chemical names and period of use or indication if records are available in electronic form, on paper, or not available  | Approved medication records, paper  |                |        | x   |
| MHA308  | Larvae hatch fecundity (LHF)         | Number of larvae that hatched out from one female in the production batch   | 7-40 million eggs ( <i>M. edulis</i> )  |                |        | x   |
| MHA309  | Density record                       | Record of stocking density of larvae in tanks   | Nos./m <sup>3</sup>   |                |        | x   |
| MHA310  | Feeding record                       | Type of feed  | Micro algae culture   |                |        | x   |
| MHA311  | Hatchery certification scheme        | Name of national/international GAqP scheme by which the hatchery is certified   | National Competent Authority  |                |        | x   |
| MHA312  | Certifying body identifier           | Name and authorization of the certifying body   | National Competent Authority or unique identification number of the certifying body |                |        | x   |
| <b>Transformation information</b>   |                                      |   |   |                |        |     |
| MHA313  | Trade unit ID of broodstock received | List of IDs of received trade units that make up this created trade unit  | Unique identification number of the broodstock received                             | x              |        |     |
| MHA314  | Fractions                            | Fraction (%) of the created unit that was made up by each received trade unit   | UTUI 1 - 50 %<br>UTUI 2 - 50 %  |                | x      |     |
| <b>Additional data</b>  |                                      |   |   |                |        |     |
| MHA350-   | (unassigned)                         | Further information elements that describe the created trade unit, linked to UTUI   |   |                |        | x   |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |                                      |   |   |                |        |     |

**Table 4** (continued)

| Data element  | Description               | Examples   | Categorization   |        |     |
|---|---------------------------|--|--|--------|-----|
|   |                           |  | Shall  | Should | May |
| <b>FOR EACH LOGISTIC UNIT CREATED</b>   |                           |  |  |        |     |
| <b>Identities</b>   |                           |  |  |        |     |
| MHA401  | Unit ID <sup>a</sup>      | ULUI   | 400653005555555568   | x      |     |
| MHA402  | Trade unit IDs            | The IDs of the trade units within the logistic unit  | 400653005555555571<br>400653005555555572<br>400653005555555573 | x      |     |
| <b>Additional data</b>  |                           |  |  |        |     |
| MHA450-   | (Unassigned)              | Further information elements that describe the created logistic unit linked to ULUI  |  |        | x   |
| <b>FOR EACH UNIT DISPATCHED</b>   |                           |  |  |        |     |
| <b>Identity</b>   |                           |  |  |        |     |
| MHA501  | Unit ID <sup>a</sup>      | UTUI   |  | x      |     |
| <b>Destination</b>  |                           |  |  |        |     |
| MHA502  | Next food business ID     | Unique national identification number for the farm plus country prefix or name and address of the food business to where the unit is dispatched (transporter or bivalve farm etc.) | M/S Kandekadu molluscan farm Chellanam, Kerala, India          | x      |     |
| MHA503  | Date and time of dispatch | Date and time of transfer to next food business, ISO 8601 format   | 2010-10-29T13:00   |        | x   |
| <b>Additional data</b>  |                           |  |  |        |     |
| MBHA550-  | (unassigned)              | Further information elements that describe the dispatched trade/logistic unit, linked to UTUI/ULUI   |  |        | x   |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |                           |  |  |        |     |

## 6.6 Molluscan farms

For the purposes of this International Standard, molluscan farms are considered to be businesses that receive molluscs/spat and keep them during the growing stage and dispatch the grown molluscan spat/adults at required quantities to the processor/trader/retailer, etc.

The molluscan farms can change the nature of molluscan products by carrying out operations such as feeding, grading, etc. Molluscan farms create new trade units that can range from a few tons to several hundred tons passed into the hands of the next food business.

**Table 5 — Detailed information for molluscan farms**

| Data element  |   | Description  | Examples  | Categorization |        |     |
|---|---|--|---|----------------|--------|-----|
|   |   |  |   | Shall          | Should | May |
| <b>MOLLUSCAN FARMS</b>  |   |  |   |                |        |     |
| MFF101  | Molluscan farm ID                                 | Unique national identification number for the farm plus country prefix or name and address of the food business that operates the molluscan farm establishment   | M/S Kandekadu molluscan farm Chellanam, Kerala, India   | x              |        |     |
| MFF102  | Certification                                     | Name of molluscs aquaculture certification scheme by which the molluscan farm is certified   | National Competent Authority or any national or international certification/approval scheme   |                |        | x   |
| MFF150-   | Unique Identification number of certifying agency | Unique identification number or address of certifying agency and authorization   | M/S XYZ, INDOCERT, Aluva Quality Council of India   |                |        | x   |
| <b>FOR EACH UNIT RECEIVED</b>   |   |  |   |                |        |     |
| <b>Identities</b>   |   |  |   |                |        |     |
| MFF201  | Unit ID   | ULUI or UTUI of the seed (/spat) received from farm/natural seed collector   | 50065300555555568   | x              |        |     |
| MFF202  | Trade unit IDs                                    | If received as a ULUI, the IDs of trade units within the logistic unit   | 50065300555555568<br>50065300555555569<br>50065300555555570   | x              |        |     |
| <b>Source</b>   |   |  |   |                |        |     |
| MFF203  | Previous food business ID                         | Unique national identification number for the hatchery/natural seed collector plus country prefix or name and address or GLN of previous food business from whom the unit was received (hatchery/natural seed collector with location) | Unique national identification number/ GSI and CMFRI, edible oyster hatchery, Narakkal, Cochin, kerala ambrose natural seed collector Nayarambalam, Kerala, India | x              |        |     |
| MFF204  | Date and time of reception                        | Movement records   | 2010-10-28T15:05  |                | x      |     |
| <b>Control checks (either on logistic or separate trade units)</b>                                    |   |  |   |                |        |     |
| MFF205  | Temperature check                                 | Temperature (°C) in the received unit  | 20 °C   |                | x      |     |
| MFF206  | Health checks/ quality control checks             | Types of checks done on units received   | Paper, OIE listed diseases and prohibited antibiotics, quality of the seed, and mortality upon receipt  |                |        | x   |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |   |  |   |                |        |     |

**Table 5** (continued)

| Data element  |   | Description   | Examples   | Categorization |        |     |
|---|---|---|--|----------------|--------|-----|
|   |   |   |  | Shall          | Should | May |
| <b>Transformation information</b>   |   |   |  |                |        |     |
| MFF207  | Related created trade unit IDs <sup>a</sup> | List of IDs of created trade units that may incorporate part of this received trade unit.   | 500653005555555568<br>500653005555555569<br>500653005555555570                           | x              |        |     |
| MFF208  | Fractions                                   | Fraction (%) of the received spat trade unit that go into each created unit   | UTUI-1 25 %<br>UTUI-2 75 %   |                | x      |     |
| <b>Additional data</b>  |   |   |  |                |        |     |
| MFF250-   | (unassigned)                                | Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI                                    |  |                |        | x   |
| <b>FOR EACH NEW TRADE UNIT CREATED BY MOLLUSCAN FARM</b>  |   |   |  |                |        |     |
| <b>Identity</b>   |   |   |  |                |        |     |
| MFF301  | Unit ID <sup>a</sup>                        | UTUI  | 500653005555555568   | x              |        |     |
| <b>Description</b>  |   |   |  |                |        |     |
| MFF302  | Location of molluscan farm                  | Longitude and latitude or other appropriate specification   | National number  |                | x      |     |
| MFF303  | Depuration (bivalves)                       | Unique national identification number of the harvester /depuration unit and tank number   | M/S Kandekadu molluscan farm<br>Chellanam, Kerala, India<br>Xyz (depuration tank number) |                | x      |     |
| MFF304  | Count/kg                                    | Nos.  | 80/120,121/180   |                |        | x   |
| MFF305  | Total quantity per batch                    | Quantity in each batch traded   | 1 ton, 3 tons, etc.  |                |        | x   |
| <b>Production history</b>   |   |   |  |                |        |     |
| MFF306  | Farm unit ID                                | Internal number of pond/rafts/rakes/any other suitable structures   | R-3, etc   | x              |        |     |
| MFF307  | Temperature record                          | Temperature/time log (manual/automatic) of the product holding area (pond/raft /cage) for the period between reception and dispatch | (°C)/date and time points  |                |        | x   |
| MFF308  | Density                                     | Stocked molluscan density in farm that went in to the created trade unit, No/m <sup>2</sup> ; kg/m of rope, etc.                    | Desirable no.<br>e.g. 10 kg/m of rope  |                |        | x   |
| MFF309  | Disease record                              | Records of names and period of diseases or indication if records are available in electronic and paper form                         | Paper  |                |        | x   |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |   |   |  |                |        |     |

Table 5 (continued)

| Data element  |                                  | Description  | Examples  | Categorization |        |     |
|---|----------------------------------|--|---|----------------|--------|-----|
|   |                                  |  |   | Shall          | Should | May |
| MFF310  | Treatment record                 | Medicine or chemical names and period of use or indication if records are available in electronic and paper form | Formalin 100 ppm (mg/kg) for 1 min (2010-06-05) Spark-PS (probiotic)-2010-08-08     |                |        | x   |
| MFF311  | Feeding record                   | Type of feed   | Natural feed/supplementary feed   |                |        | x   |
| MFF312  | Aquaculture certification scheme | National or international certification scheme for farming area  | BAP, ACC, Global GAP  |                |        | x   |
| MFF313  | Chilling                         | Ratio of ice: molluscs used and source of ice or chilling medium used  | 1:2, Name and address of ice plant or unique identification number of the ice plant |                |        | x   |
| MFF314  | Live (bivalve)                   | Temperature and relative humidity  | 15 °C carton with moistened saw dust  |                |        | x   |
| MFF315  | Certification scheme identifier  | Unique national identification number of the scheme  | 356467737   |                |        | x   |
| <b>Transformation information</b>   |                                  |  |   |                |        |     |
| MFF316  | Related received trade unit IDs  | List of IDs of received trade units that make up this created trade unit   | 50065300555555568   | x              |        |     |
| MFF317  | Fractions                        | Fraction (% + kilos) of the created unit that was made up by each received trade unit                            | UTUI-1 50 %<br>UTUI-2 50 %  |                | x      |     |
| <b>Additional data</b>  |                                  |  |   |                |        |     |
| MFF350-   | (unassigned)                     | Further information elements that describe the created trade unit, linked to UTUI                                |   |                |        | x   |
| <b>FOR EACH LOGISTIC UNIT CREATED</b>   |                                  |  |   |                |        |     |
| <b>Identities</b>   |                                  |  |   |                |        |     |
| MFF401  | Unit ID                          | UTUI for the product created by the farm   | 50065300555555568   | x              |        |     |
| MFF402  | Trade unit IDs                   | The IDs of the trade units within the logistic unit  | 50065300555555568<br>50065300555555569<br>50065300555555570                         | x              |        |     |
| <b>Additional data</b>  |                                  |  |   |                |        |     |
| MFF450-   | (unassigned)                     | Further information elements that describe the created logistic unit, linked to ULUI                             |   |                |        | x   |
| <b>FOR EACH UNIT DISPATCHED (Either as a logistic or separate trade unit)</b>                         |                                  |  |   |                |        |     |
| <b>Identity</b>   |                                  |  |   |                |        |     |
| MFF501  | Unit ID <sup>a</sup>             | ULUI (if dispatched as a logistic unit) or UTUI (if dispatched as a separate trade unit)                         | 50065300555555568   | x              |        |     |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |                                  |  |   |                |        |     |

**Table 5** (continued)

| Data element  |                           | Description   | Examples  | Categorization |        |     |
|---|---------------------------|---|---|----------------|--------|-----|
|   |                           |   |   | Shall          | Should | May |
| <b>Destination</b>  |                           |   |   |                |        |     |
| MFF502  | Next food business ID     | Unique national identification number for the processor /trader/caterer plus country prefix or name and address of the food business to whom the unit is dispatched (transporter or processor etc.) | M/S Chemmeens Karuvelipady Kochi, Kerala, India | x              |        |     |
| MFF503  | Temperature check         | Temperature (°C) of unit at time of dispatch  | 4 °C  |                | x      |     |
| MFF504  | Date and time of dispatch | Date and time of transfer to next food business, ISO 8601 format  | 2010-10-15T18:00                                |                | x      |     |
| <b>Additional data</b>  |                           |   |   |                |        |     |
| MFF550-   | (unassigned)              | Further information elements that describe the dispatched trade/logistic unit, linked to UTUI/ULUI  |   |                |        | x   |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |                           |   |   |                |        |     |

## 6.7 Processors

For the purposes of this International Standard, processors are considered to be businesses that change the nature of molluscan products by carrying out operations such as shucking, cutting, or by treatments such as blanching or cooking. This includes both primary and secondary processors.

However, fishing vessels that carry out basic operations on the molluscs and retailers and caterers who prepare molluscan products for the consumer are not considered to be processors.

Processors create new trade units. Those units may incorporate ingredients other than molluscan products.

Heat shocking means the process of subjecting bivalve molluscs in the shell to any form of heat treatment such as steam, hot water, or dry heat for a short period of time and/or high-pressure processing to facilitate rapid release of meat from the shell for the purpose of shucking. The heat shock method of preparing molluscs for shucking is not intended to open, kill, blanch, or cook the molluscs, but rather to cause the molluscs to relax its adductor muscles and contract its body so that it can more easily be shucked. High-pressure processing can also be adopted as this process kills microbes. There should be an operable schedule prepared by qualified hands or authorities and the establishment unit should retain all records of the heat/pressure shock process.



**Table 6 — Detailed information requirements for processors**

| Data element  |                                   | Description   | Examples   | Categorization |        |     |
|---|-----------------------------------|---|--|----------------|--------|-----|
|   |                                   |   |  | Shall          | Should | May |
| <b>PROCESSOR</b>  |                                   |   |  |                |        |     |
| MPR101  | Food business ID                  | Unique national identification number for the processor plus country prefix as well as name and address of the food business that operates processing establishment   | M/S Chemmeens Karuvelipady Kochi, Kerala, India                    | x              |        |     |
| MPR102  | Processing establishment ID       | Unique national identification number for the organization plus country prefix as well as name and address or GLN of processing establishment   | M/S Chemmeens Karuvelipady Kochi, Kerala, India                    | x              |        |     |
| MPR103  | HACCP/GMP certification           | Names of fish quality or food safety GMP schemes by which processor is certified  | ISO 22000:2005   |                |        | x   |
| MPR150-   | (unassigned)                      | Further information elements that describe the organization, linked to processing establishment ID  |  |                |        | x   |
| <b>FOR EACH UNIT RECEIVED</b>   |                                   |   |  |                |        |     |
| <b>Identities</b>   |                                   |   |  |                |        |     |
| MPR201  | Unit ID <sup>a</sup>              | ULUI if received as a logistic unit or UTUI if received as a separate trade unit  | 50065300555555568  | x              |        |     |
| MPR202  | Trade unit IDs in logistic unit   | List of UTUIs of the trade units that make up the logistic unit (if received as a logistic unit)  | 50065300555555568<br>50065300555555569<br>50065300555555570        | x              |        |     |
| <b>Source</b>   |                                   |   |  |                |        |     |
| MPR203  | Previous food business ID         | Unique national identification number for the pre-processor/ farm/first sale plus country prefix as well as name and address of the food business from whom the unit was received (vessel, first sale, or transporter etc.) | M/S Kandekadu molluscan farm Chellanam, Kerala, India              | x              |        |     |
| MPR204  | Date and time of reception        | Date and time of transfer from previous food business, ISO 8601 format  | 2010-10-28T06:30   |                | x      |     |
| <b>Control checks (related to the logistic or separate trade units, as appropriate)</b>               |                                   |   |  |                |        |     |
| MPR205  | Temperature of unit when received | Temperature of unit (°C)  | <5 °C  |                | x      |     |
| MPR206  | Unit temperature record           | Temperature/time log (manual/automatic if there is a recording device affixed to the unit)  | Series of temperature (°C)/date and time points in ISO 8601 format |                |        | x   |
| MPR207  | Raw material source               | Records of source   | Raw material receiving records                                     |                |        | x   |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |                                   |   |  |                |        |     |

Table 6 (continued)

| Data element  |   | Description  | Examples   | Categorization |        |     |
|---|---|--|--|----------------|--------|-----|
|   |   |  |  | Shall          | Should | May |
| <b>Production history (for all activities between reception and processing)</b>                       |   |  |  |                |        |     |
| MPR208  | Raw material storage temperature control method | Iced, iced and refrigerated, or refrigerated   | Iced and refrigerated  |                |        | x   |
| MPR209  | Raw material storage temperature record         | Temperature/time log (manual/automatic) of storage area for period between reception and processing  | Storage time and temperature (°C) -2 °C -4 °C/6 h              |                |        | x   |
| <b>Transformation information (for each trade unit)</b>   |   |  |  |                |        |     |
| MPR210  | Related created trade unit IDs                  | List of the UTUIs of the created trade units that may incorporate part of the received trade unit  | 600653005555555568<br>600653005555555569<br>600653005555555570 | x              |        |     |
| <b>Additional data</b>  |   |  |  |                |        |     |
| MPR250-   | (unassigned)                                    | Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI   |  |                |        | x   |
| <b>FOR EACH TRADE UNIT CREATED</b>  |   |  |  |                |        |     |
| <b>Identity</b>   |   |  |  |                |        |     |
| MPR301  | Trade unit ID <sup>a</sup>                      | UTUI   | 600653005555555570   | x              |        |     |
| MPR302  | Type of unit                                    | Description of physical type of unit (box or case of 10 retail packs, etc.)  | Master cartons   |                |        | x   |
| MPR303  | Net weight                                      | Weight of product (kg)   | 10 kg  |                |        | x   |
| MPR304  | Name/type of product                            | Descriptive name of product (IQF octopus gutted, frozen oysters)   | Frozen oyster, cooked clam meat                                |                |        | x   |
| MPR305  | Product specification                           | Records of further details of product specification (quality and size grades, etc.) are available in electronic or paper form                    | Paper form<br>IQF clam meat<br>IQF mussel meat, etc.           |                |        | x   |
| MPR306  | Species   | LAT- followed by Latin name or FAO- followed by FAO 3alpha code or TSN- followed by taxonomic serial number (may be repeated if several species) | LAT- <i>Perna viridis</i><br>FAO-MSV<br>TSN-3161003202         |                | x      |     |
| MPR307  | Primary production method                       | Farmed   | Farmed   |                |        | x   |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |   |  |  |                |        |     |

Table 6 (continued)

| Data element  |   | Description   | Examples  | Categorization |        |     |
|---|---|---|---|----------------|--------|-----|
|   |   |   |   | Shall          | Should | May |
| MPR308  | Area/<br>country of<br>origin   | FAO area/RFMO area for<br>farmed molluscs   | 51  | x              |        |     |
| MPR309  | Composition   | List of names of ingredients<br>and %'s by weight, including<br>molluscs  | 90 % mussel meat, 10 %<br>glaze                             |                |        | x   |
| MPR310  | Product<br>condition  | Ambient, chilled, or frozen   | Frozen  |                |        | x   |
| MPR311  | Shelf life  | Best before or sell by date as<br>appropriate, ISO 8601 format  | Sell by 2011-10-30  |                |        | x   |
| MPR312  | GMO (in<br>case of<br>farmed)   | Use of any GMO or products<br>from GMO in product or raw<br>material  | No  |                |        | x   |
| <b>Production history</b>   |   |   |   |                |        |     |
| MPR313  | Process<br>specification  | Records of process<br>specification are available in<br>electronic or paper form                                | Paper   |                |        | x   |
| MPR314  | Date and<br>time of<br>production   | Time of packing/labelling at<br>end of line, ISO 8601 format  | 2010-08-20T11:20:46   |                | x      |     |
| MPR315  | HACCP   | Records of hazard analysis<br>and critical control point<br>checks are available in<br>electronic or paper form | Paper   |                |        | x   |
| MPR316  | Hygiene<br>checks   | Records of hygiene checks<br>(swab tests, etc.) are available<br>in electronic or paper form                    | Paper   |                |        | x   |
| MPR317  | Process<br>temperature<br>records   | Records of temperatures<br>(processes and process area)<br>are available in electronic or<br>paper form         | Paper   |                |        | x   |
| <b>Transformation information</b>   |   |   |   |                |        |     |
| MPR318  | Related<br>received<br>trade unit<br>IDs that<br>goes into the<br>created trade<br>unit | List of the UTUIs of the<br>received trade units that may<br>be input to the created trade<br>unit              | 60065300555555571<br>60065300555555572<br>60065300555555573 | x              |        |     |
| <b>Additional data</b>  |   |   |   |                |        |     |
| MPR350-   | (unassigned)  | Further information elements<br>that describe the created trade<br>unit, linked to UTUI                         |   |                |        | x   |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |   |   |   |                |        |     |

Table 6 (continued)

| Data element  |  | Description   | Examples  | Categorization |        |     |
|---|--|---|---|----------------|--------|-----|
|   |  |   |   | Shall          | Should | May |
| <b>FOR EACH LOGISTIC UNIT CREATED</b>   |  |   |   |                |        |     |
| <b>Identities</b>   |  |   |   |                |        |     |
| MPR401  | Logistic unit ID                           | ULUI  | (00)<br>70065300555555570   | x              |        |     |
| MPR402  | Trade unit IDs in logistic unit            | List of UTUIs of the trade units that make up the logistic unit   | 678817525.076<br>6.000010166<br>678817525.076<br>6.000010167<br>678817525.076<br>6.000010268  | x              |        |     |
| <b>Additional data</b>  |  |   |   |                |        |     |
| MPR450-   | (unassigned)                               | Further information elements that describe the created logistic unit, linked to ULUI  |   |                |        | x   |
| <b>FOR EACH UNIT DISPATCHED (either as a logistic unit or a separate trade unit)</b>                  |  |   |   |                |        |     |
| <b>Identity</b>   |  |   |   |                |        |     |
| MPR501  | Unit ID <sup>a</sup>                       | ULUI if dispatched as a logistic unit or UTUI if dispatched as a trade unit   | 70065300555555570   | x              |        |     |
| <b>Production history (related to the logistic or separate trade units, as appropriate)</b>           |  |   |   |                |        |     |
| MPR502  | Product storage temperature control method | None, refrigerated, or frozen storage   | Frozen  |                |        | x   |
| MPR503  | Product storage temperature record         | Temperature/time log (manual/automatic) of product holding area for period between processing and dispatch  | Series of temperature (°C)<br>-20 °C ± 2°C /6 months  |                |        | x   |
| <b>Destination</b>  |  |   |   |                |        |     |
| MPR504  | Next food business ID                      | Unique national identification number for the transporter plus country prefix as well as name and address of the food business to whom the unit is dispatched (transporter or wholesaler, etc.) | KTC, Market road<br>Ernakulam, Kerala, India<br><br>M/S XYZ shipping company W. Island<br>Kochi, Kerala, India<br><br>M/S Choice Canning Co.<br>Boston, USA | x              |        |     |
| MPR505  | Date and time of dispatch                  | Date and time in ISO 8601 format  | 2010-10-29T16:30  |                |        |     |
| <b>Additional data</b>  |  |   |   |                |        |     |
| MPR550-   | (unassigned)                               | Further information elements that describe the dispatched trade/logistic unit, linked to UTUI/ULUI  |   |                |        | x   |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |  |   |   |                |        |     |

## 6.8 Transporters and store operators

For the purposes of this International Standard, transporters and store operators are considered to be businesses that provide the service of transporting or storing goods. They may operate at various stages in distribution chains, transporting, or storing raw materials or products. Transport can be by land, sea, or air.

Transporters and stores do not break down or create trade units, but can break down or create logistic units.

### 6.8.1 Live molluscs

For the purposes of this International Standard, live mollusc transporters and store operators are considered to be businesses that provide the service of transporting or storing goods. They may operate at various stages in distribution chains, transporting, or storing raw materials or products. Transport can be by land, sea, or air.

Transporters and stores do not break down or create trade units, but can break down or create logistic units.

**Table 7 — Detailed information requirements for live molluscan transporters and store operators**

| Data element  |  | Description   | Examples  | Categorization |        |     |
|---|--|---|---|----------------|--------|-----|
|   |  |   |   | Shall          | Should | May |
| <b>LIVE MOLLUSC TRANSPORTERS AND STORE OPERATORS</b>  |  |   |   |                |        |     |
| MTR101  | Food business ID                             | Unique national identification number for the organization plus country prefix as well as name and address of the food business that operates transport vehicle or vessel establishment                     | Unique national identification number, M/S ABT transports CPC building, Cochin 682029 Kerala, India | x              |        |     |
| MTR102  | Transport vehicle or vessel establishment ID | Name (if vessel) and registration number of vehicle or vessel or unique national identification number for the organization plus country prefix, as well as name and address of establishment or GLN number | KL 07 2257  | x              |        |     |
| MTR103  | Transporter GMP certification                | Names of molluscan quality or food safety GMP schemes by which transporter is certified   | HACCP certification   |                |        | x   |
| MTR150-   | (unassigned)                                 | Further information elements that describe the organization, linked to transport vehicle ID, or vessel establishment ID   |   |                |        | x   |
| <b>FOR EACH UNIT RECEIVED</b>   |  |   |   |                |        |     |
| <b>Identities</b>   |  |   |   |                |        |     |
| MTR201  | Unit ID <sup>a</sup>                         | ULUI (if received as a logistic unit) or UTUI (if received as a separate trade unit)  | 700653005555<br>555560  | x              |        |     |
| MTR202  | Trade unit IDs                               | If received as a logistic unit, the IDs of the trade units within the logistic unit   | 600653005555<br>555561<br>600653005555<br>555562<br>600653005555<br>555563                          | x              |        |     |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |  |   |   |                |        |     |

Table 7 (continued)

| Data element  | Description                | Examples  | Categorization   |        |     |   |
|---|----------------------------|---|--|--------|-----|---|
|   |                            |   | Shall  | Should | May |   |
| <b>Source</b>   |                            |   |  |        |     |   |
| MTR203  | Previous food business ID  | Unique national identification number for the organization plus country prefix as well as name and address of the food business that operates establishment | 583, M/S ABT Transports CPC Building, Cochin 682029 Kerala, India          | x      |     |   |
| MTR204  | Date and time of reception | ISO 8601 format   | 2010-09-28T16.00   |        | x   |   |
| <b>Control checks (either on logistic or separate trade units)</b>                                    |                            |   |  |        |     |   |
| MTR205  | Temperature check          | Temperature in unit when received °C  | +2,0 °C  |        | x   |   |
| MTR206  | Temperature record         | If recording device is affixed to batch, temperature/time record from creation of unit onward   | Series of temperature (°C)/date and time points in ISO 8601 format         |        | x   |   |
| <b>Additional data</b>  |                            |   |  |        |     |   |
| MTR250  | (unassigned)               | Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI  |  |        |     | x |
| <b>FOR EACH NEW LOGISTIC UNIT CREATED BY TRANSPORTER</b>  |                            |   |  |        |     |   |
| <b>Identities</b>   |                            |   |  |        |     |   |
| MTR301  | Unit ID                    | ULUI  | 800653005555<br>555560   | x      |     |   |
| MTR302  | Trade unit IDs             | The IDs of the trade units within the logistic unit   | 700653005555<br>555560<br>700653005555<br>555561<br>700653005555<br>555562 | x      |     |   |
| <b>Additional data</b>  |                            |   |  |        |     |   |
| MTR350-   | (unassigned)               | Further information elements that describe the created logistic unit, linked to ULUI  |  |        |     | x |
| <b>FOR EACH UNIT DISPATCHED (either as a logistic unit or a separate trade unit)</b>                  |                            |   |  |        |     |   |
| <b>Identity</b>   |                            |   |  |        |     |   |
| MTR401  | Unit ID <sup>a</sup>       | ULUI (if dispatched as a logistic unit) or UTUI (if dispatched as a separate trade unit)  | 800653005555<br>555560   | x      |     |   |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |                            |   |  |        |     |   |

Table 7 (continued)

| Data element  | Description                | Examples   | Categorization  |        |     |   |
|---|----------------------------|--|---|--------|-----|---|
|   |                            |  | Shall   | Should | May |   |
| <b>Production history</b>   |                            |  |   |        |     |   |
| MTR402  | Temperature control method | None, iced, iced and refrigerated, or refrigerated   | Iced and refrigerated   |        | x   |   |
| MTR403  | Temperature record         | Temperature/time (manual/automatic) log of the product holding area for the period between reception and dispatch  | Series of temperature (°C)/date and time points ISO 8601 format |        |     | x |
| MTR404  | Disinfecting date          | Date of last disinfecting and data of the boat/truck or indication if records are available in electronic form, on paper, or not available, ISO 8601 format                        | 2010-01-20  |        |     | x |
| MTR405  | Water parameter record     | Water parameter record (names and values) in molluscan carrier tank water during transport or indication if records are available in electronic form, on paper, or not available   | Paper form  |        |     | x |
| MTR406  | Molluscan density          | Molluscan density in transport tank, kg molluscan per cubic meter water  | 54 kg/m <sup>3</sup>  |        |     | x |
| <b>Destination</b>  |                            |  |   |        |     |   |
| MTR407  | Next food business ID      | Unique national identification number for the organization plus country prefix, as well as name and address of the food business to whom the unit is dispatched (transporter etc.) | 405, M/S ABAD caterers Ltd., Navi Mumbai Maharashtra, India     | x      |     |   |
| MTR408  | Place of delivery          | If not at receivers address  | 405, M/s ABAD caterers Ltd., Navi Mumbai Maharashtra, India     |        | x   |   |
| MTR409  | Date and time of dispatch  | ISO 8601 format  | 2010-09-25T20:00  |        | x   |   |
| <b>Additional data</b>  |                            |  |   |        |     |   |
| MTR450-   | (unassigned)               | Further information elements that describe the dispatched trade/logistic unit, linked to UTUI/ULUI   |   |        |     | x |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |                            |  |   |        |     |   |

### 6.8.2 Molluscs other than live

For the purposes of this International Standard, transporters and store operators are considered to be businesses that provide the service of transporting or storing goods. They may operate at various stages in distribution chains, transporting, or storing raw materials or products. Transport can be by land, sea, or air.

Transporters and stores do not break down or create trade units, but can break down or create logistic units.

**Table 8 — Detailed information requirements for transporters and store operators for molluscs other than live**

| Data element  | Description                                   | Examples   | Categorization   |        |     |   |
|---|---|--|--|--------|-----|---|
|   |   |  | Shall  | Should | May |   |
| <b>TRANSPORTERS OR STORE OPERATORS</b>  |   |  |  |        |     |   |
| MTS101  | Food business ID                              | Unique national identification number for the transporters/store operators plus country prefix or name and address of the food business that operates transport vehicle or storage establishment                       | M/S CCI Reefer Corporation<br>W. Island,<br>Cochin 682029<br>Kerala, India | x      |     |   |
| MTS102  | Transport vehicle or storage establishment ID | Unique national identification/registration number for the vehicle/storage establishment plus country prefix and name or GLN   | KI - 07 AF-5432<br>M/s.Abad<br>frozen store,<br>Aroor, India               | x      |     |   |
| MTS103  | HACCP/GMP certification                       | Names of the food safety GMP schemes by which transporter or store operator is certified   | ISO 22000:2005   |        |     | x |
| MTS150-   | (unassigned)                                  | Further information elements that describe the organization linked to transport vehicle ID or storage establishment ID   |  |        |     | x |
| <b>FOR EACH UNIT RECEIVED</b>   |   |  |  |        |     |   |
| <b>Identities</b>   |   |  |  |        |     |   |
| MTS201  | Unit ID <sup>a</sup>                          | ULUI if collected or received as a logistic unit or UTUI if received as a separate trade unit  | 700653005555<br>555570   | x      |     |   |
| MTS202  | Trade unit IDs in logistic unit               | List of UTUIs of the trade units that make up the logistic unit (required only if received as a logistic unit and it is to be broken down or transformed by the transporter or store operator)                         | 600653005555<br>555571<br>600653005555<br>555572<br>600653005555<br>555570 | x      |     |   |
| <b>Source</b>   |   |  |  |        |     |   |
| MTS203  | Previous food business ID                     | Unique national identification number for the processor plus country prefix or name and address of the food business from whom the unit was received (vessel, first sale or processor, etc.)                           | M/S<br>Chemmeens<br>Karuvilipady<br>Kochi, Kerala,<br>India                | x      |     |   |
| MTS204  | Date and time of reception                    | Date and time in ISO 8601 format   | 2010-07-<br>29T16:00   |        | x   |   |
| MTS205  | Place of collection                           | Unique national identification number for the organization plus country prefix as well as name and address or GLN or approximate latitude and longitude if transferred at sea (this is required only for transporters) | M/S<br>Chemmeens<br>Karuvilipady<br>Kochi, Kerala,<br>India                |        | x   |   |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |   |  |  |        |     |   |



Table 8 (continued)

| Data element  | Description   | Examples  | Categorization   |        |     |   |
|---|---|---|--|--------|-----|---|
|   |   |   | Shall  | Should | May |   |
| <b>Control checks (related to the logistic or separate trade units, as appropriate)</b>               |   |   |  |        |     |   |
| MTS206  | Temperature of unit when received                         | Temperature of unit °C  | -20 °C ± 2 °C  |        | x   |   |
| <b>Additional data</b>  |   |   |  |        |     |   |
| MTS250-   | (unassigned)  | Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI  |  |        |     | x |
| <b>FOR EACH NEW LOGISTIC UNIT PRODUCED BY TRANSPORTER OR STORE OPERATOR</b>                           |   |   |  |        |     |   |
| <b>Identities</b>   |   |   |  |        |     |   |
| MTS301  | Logistic unit ID  | ULUI  | 900653005555<br>555570   | x      |     |   |
| MTS302  | Trade unit IDs in logistic unit                           | List of UTUIs of the trade units that make up the logistic unit   | 900653005555<br>555570<br>900653005555<br>555571<br>900653005555<br>555572 | x      |     |   |
| <b>Additional data</b>  |   |   |  |        |     |   |
| MTS350-   | (unassigned)  | Further information elements that describe the produced logistic unit, linked to ULUI   |  |        |     | x |
| <b>FOR EACH UNIT DISPATCHED (either as a logistic unit or a separate trade unit)</b>                  |   |   |  |        |     |   |
| <b>Identity</b>   |   |   |  |        |     |   |
| MTS401  | Unit ID <sup>a</sup>                                      | ULUI if dispatched as a logistic unit or UTUI if dispatched as a trade unit   | 900653005555<br>555570   | x      |     |   |
| <b>Production history (related to the logistic or separate trade units, as appropriate)</b>           |   |   |  |        |     |   |
| MTS402  | Transporter or store operators temperature control method | Frozen and refrigerated or refrigerated or ambient  | -20 °C ± 2 °C  |        | x   |   |
| MTS403  | Transporter or store operator temperature record          | Temperature/time log (manual/automatic) of the molluscs holding area for the period between reception and delivery  | Series of temperature (°C)<br>-20 °C ± 2 °C<br>/5 h                        |        |     | x |
| <b>Destination</b>  |   |   |  |        |     |   |
| MTS404  | Next food business ID                                     | Unique national identification number for the wholesaler or caterer plus country prefix, as well as name and address of the food business to whom the unit is dispatched (transporter or processor, etc.) | M/S Joe patties seafoods, South A St. and Main St, Pensacola, Florida      | x      |     |   |
| MTS405  | Date and time of dispatch                                 | Date and time in ISO 8601 format  | 2010-07-29T20:00   |        | x   |   |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |   |   |  |        |     |   |

**Table 8** (continued)

| Data element  |                   | Description   | Examples   | Categorization |        |     |
|---|-------------------|---|--|----------------|--------|-----|
|   |                   |   |  | Shall          | Should | May |
| MTS406  | Place of delivery | Unique national identification number for the organization plus country prefix, as well as name and address or GLN or approximate latitude and longitude if transferred at sea (this is required only for transporters) | M/SJoe patties seafoods, South A St. and Main St, Pensacola, Florida<br><br>M/SCasmark seafoods Ltd. Toronto, Canada<br><br>Amazon cold storages Aroor P.O. Keral, India |                | x      |     |
| <b>Additional data</b>  |                   |   |  |                |        |     |
| MTS450-   | (unassigned)      | Further information elements that describe the dispatched trade/logistic unit, linked to UTUI/ULUI  |  |                |        | x   |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |                   |   |  |                |        |     |

## 6.9 Traders and wholesalers

For the purpose of this International Standard, traders and wholesalers are considered to be merchants who buy, sell, and physically trade molluscan products to other businesses. They may operate at various stages in distribution chains, trading raw materials, or products. They include cash-and-carry type businesses supplying retailers and caterers.

Some traders and wholesalers may create new trade units by breaking down trade units they have received into smaller units or by picking and mixing individual molluscan products from a number of trade units they have received in order to meet the needs of particular customers. However, traders and wholesalers do not change the nature of the molluscan products they trade or they would be considered also to be processors.

Traders and wholesalers can also break down or create logistic units.

**Table 9 — Detailed information for traders and wholesalers**

| Data element  |                  | Description   | Examples   | Categorization |        |     |
|---|------------------|---|--|----------------|--------|-----|
|   |                  |   |  | Shall          | Should | May |
| <b>TRADERS OR WHOLESALERS</b>   |                  |   |  |                |        |     |
| MTW101  | Food business ID | Unique national identification number for the traders and wholesalers plus country prefix or name and address of the food business that operates trading or wholesaling establishment | M/SJoe patties seafoods, South A St. and Main St, Pensacola, Florida | x              |        |     |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |                  |   |  |                |        |     |

Table 9 (continued)

| Data element  |                                       | Description   | Examples  | Categorization |        |     |
|---|---------------------------------------|---|---|----------------|--------|-----|
|   |                                       |   |   | Shall          | Should | May |
| MTW102  | Trader or wholesaler establishment ID | Unique national identification number for the organization plus country prefix or name and address or GLN of trading or wholesaling establishment   | M/S Blue Water Fish Traders, 36/3505, Ernakulam Wholefish Market Market Road, Cochin 682031 Kerala, India   | x              |        |     |
| MTW103  | GMP certification                     | Names of molluscs quality or food safety GMP schemes by which trader or wholesaler is certified   | Codex GMP   |                |        | x   |
| MTW150-   | (unassigned)                          | Further information elements that describe the organization, linked to trading or wholesaling establishment ID  |   |                |        | x   |
| <b>FOR EACH UNIT RECEIVED</b>   |                                       |   |   |                |        |     |
| <b>Identities</b>   |                                       |   |   |                |        |     |
| MTW201  | Unit ID                               | ULUI (if received as a logistic unit) or UTUI (if received as a separate trade unit)  | 90065300555555570   | x              |        |     |
| MTW202  | Trade unit IDs                        | List of UTUI of the trade units that make up the logistic unit (required only if received as a logistic unit that is to be broken down by the trader or wholesaler)   | 70065300555555570<br>70065300555555571<br>70065300555555572   | x              |        |     |
| <b>Source</b>   |                                       |   |   |                |        |     |
| MTW203  | Previous food business ID             | Unique national identification number for the processor/trader/vessel operator/farm plus country prefix or name and address of the food business from whom the unit was received (first sale, processor or transporter, etc.) | M/S CCI Reefer Corporation W. Island, Cochin 682029 Kerala, India<br>M/S Seafood store Pvt. Ltd. 37 Catalina drive Tullamarine, Victoria, Australia | x              |        |     |
| MTW204  | Date and time of reception            | Date and time in ISO 8601 format  | 2010-10-25T13:45  |                | x      |     |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |                                       |   |   |                |        |     |

Table 9 (continued)

| Data element  |                           | Description  | Examples  | Categorization |        |     |
|---|---------------------------|--|---|----------------|--------|-----|
|   |                           |  |   | Shall          | Should | May |
| <b>Control checks (related to the logistic or separate trade units, as appropriate)</b>               |                           |  |   |                |        |     |
| MTW205  | Temperature check         | Temperature of unit °C   | -20 °C ± 2 °C   |                | x      |     |
| MTW206  | Temperature record        | Temperature/time log (manual/automatic) (if there is a recording device affixed to the unit)     | Series of temperature (°C), -20 °C ± 2 °C, 10 h                               |                |        | x   |
| <b>Additional data</b>  |                           |  |   |                |        |     |
| MTW250-   | (unassigned)              | Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI |   |                |        | x   |
| <b>FOR EACH NEW TRADE UNIT PRODUCED BY TRADER OR WHOLESALER</b>                                       |                           |  |   |                |        |     |
| <b>Identity</b>   |                           |  |   |                |        |     |
| MTW301  | Trade unit ID             | UTUI   | 978817525.076<br>6.000010272  | x              |        |     |
| <b>Description</b>  |                           |  |   |                |        |     |
| MTW302  | Type of unit              | Description of physical type of unit (box or case of 10 retail packs, etc.)                      | Box   |                | x      |     |
| MTW303  | Product condition         | Ambient or frozen  | frozen  |                |        | x   |
| <b>For each different component part of trade unit</b>  |                           |  |   |                |        |     |
| MTW304  | Received trade unit ID    | The UTUI of the received trade unit from which the component was taken                           | 100065300555<br>5555571<br>100065300555<br>5555572<br>100065300555<br>5555573 | x              |        |     |
| MTW305  | Type of molluscan product | Identifying description or name of molluscan product   | IQF clam meat, squid cleaned  |                |        | x   |
| MTW306  | Net weight                | Weight of fishery product (kg)   | 3,6 kg  |                | x      |     |
| <b>Additional data</b>  |                           |  |   |                |        |     |
| MTW350-   | (unassigned)              | Further information elements that describe the produced trade unit, linked to UTUI               |   |                |        | x   |
| <b>FOR EACH NEW LOGISTIC UNIT PRODUCED BY TRADER OR WHOLESALER</b>                                    |                           |  |   |                |        |     |
| <b>Identities</b>   |                           |  |   |                |        |     |
| MTW401  | Unit ID <sup>a</sup>      | ULUI   | 100065300555<br>5555570   | x              |        |     |
| MTW402  | Trade unit IDs            | List of UTUI of the trade units that make up the logistic unit                                   | 100065300555<br>5555571<br>100065300555<br>5555572<br>100065300555<br>5555573 | x              |        |     |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |                           |  |   |                |        |     |

Table 9 (continued)

| Data element  | Description                                     | Examples  | Categorization  |        |     |   |
|---|---|---|---|--------|-----|---|
|   |   |   | Shall   | Should | May |   |
| <b>Additional data</b>  |   |   |   |        |     |   |
| MTW450-   | (unassigned)                                    | Further information elements that describe the produced logistic unit, linked to ULUI   |   |        |     | x |
| <b>FOR EACH UNIT DISPATCHED (either as a logistic unit or a separate trade unit)</b>                  |   |   |   |        |     |   |
| <b>Identity</b>   |   |   |   |        |     |   |
| MTW501  | Unit ID   | ULUI (if dispatched as a logistic unit) or UTUI (if dispatched as a trade unit)   | 100065300555<br>5555570   | x      |     |   |
| <b>Production history (related to the logistic or separate trade units, as appropriate)</b>           |   |   |   |        |     |   |
| MTW502  | Trader or wholesaler temperature control method | Iced, iced and refrigerated, or refrigerated  | Iced and refrigerated   |        | x   |   |
| MTW503  | Trader or wholesaler temperature record         | Temperature/time log (manual/automatic) of product holding area for period between reception and dispatch   | Series of temperature (°C)/-20 °C ± 2 °C, 10 h (frozen), 2 °C ± 2 °C/2 h (chilled)                              |        | x   |   |
| <b>Destination</b>  |   |   |   |        |     |   |
| MTW504  | Next food business ID                           | Unique national identification number of the retailer/customer plus country prefix or name and address of the food business to whom the unit is dispatched (transporter, processor or retailer, etc.) | M/S Fresh Fish Traders, Chempumukku Jn Kakkanad, Cochin 682015<br>M/S Surpass trading Co. Ltd. Hong Kong, China | x      |     |   |
| MTW505  | Date and time of dispatch                       | Date and time of transfer to next food business, ISO 8601 format  | 2010-07-30T07:00  |        | x   |   |
| <b>Additional data</b>  |   |   |   |        |     |   |
| MTW550-   | (unassigned)                                    | Further information elements that describe the dispatched trade/logistic unit, linked to UTUI/ULUI  |   |        |     | x |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |   |   |   |        |     |   |

## 6.10 Retailers and caterers

For the purposes of this International Standard, retailers and caterers are considered to be suppliers to the public, not to other businesses. They are likely to break down trade units received and may change the nature of molluscan products by preparing them for their customers. Some may package and label the items sold. Retailers and caterers are encouraged to record information on their sales, but the scope of this International Standard does not extend to sale to the public.

**Table 10 — Detailed information for retailers and caterers**

| Data element  |                                     | Description   | Examples  | Categorization |        |     |
|---|-------------------------------------|---|---|----------------|--------|-----|
|   |                                     |   |   | Shall          | Should | May |
| <b>RETAILER OR CATERER</b>  |                                     |   |   |                |        |     |
| MRC101  | Food business ID                    | Unique national identification number for the organization plus country prefix, as well as name and address of the food business that operates retail or catering establishment   | M/S Fresh Fish Traders, Chempumukku Jn Kakkanad, Cochin 682015 Surpass Trading Co. Ltd. Hong Kong, China Market Road, Cochin 682031 | x              |        |     |
| MRC102  | Retail or catering establishment ID | Unique national identification number for the organization plus country prefix, as well as name and address or GLN of retail/catering establishment   | M/S Fresh Fish Traders, Chempumukku Jn Kakkanad, Cochin 682015  | x              |        |     |
| MRC103  | Processor GMP Certification         | Names of molluscs quality or food safety GMP schemes by which retailer or caterer is certified  | Codex GMP   |                |        | x   |
| MRC150-   | (unassigned)                        | Further information elements that describe the organization, linked to retail or catering establishment ID  |   |                |        | x   |
| <b>FOR EACH UNIT RECEIVED</b>   |                                     |   |   |                |        |     |
| <b>Identities</b>   |                                     |   |   |                |        |     |
| MRC201  | Unit ID <sup>a</sup>                | ULUI (if received as a logistic unit) or UTUI (if received as a separate trade unit)  | 100065300555 5555570  | x              |        |     |
| MRC202  | Trade unit IDs                      | If received as a logistic unit, the IDs of the trade units within the logistic unit   | 100065300555 5555571<br>100065300555 5555572<br>100065300555 5555573  | x              |        |     |
| <b>Source</b>   |                                     |   |   |                |        |     |
| MRC203  | Previous food business ID           | Unique national identification number for the organization plus country prefix, as well as name and address or GLN of previous food business from whom the unit was received (processor, wholesaler or transporter, etc.) | M/S Fresh Fish Traders, Chempumukku Jn Kakkanad, Cochin 682015 Surpass Trading Co. Ltd. Hong Kong, China                            | x              |        |     |
| MRC204  | Date and time of reception          | ISO 8601 format   | 2010-06-20T10:34  |                | x      |     |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |                                     |   |   |                |        |     |

Table 10 (continued)

| Data element  |                            | Description   | Examples  | Categorization |        |     |
|---|----------------------------|---|---|----------------|--------|-----|
|   |                            |   |   | Shall          | Should | May |
| <b>Control checks (either on logistic or separate trade units)</b>                                    |                            |   |   |                |        |     |
| MRC205  | Temperature check          | Temperature of unit °C at reception   | 2 °C - 4 °C   |                | x      |     |
| MRC206  | Temperature record         | If recording device is affixed to batch, temperature/time record from creation of unit onward         | Series of temperature (°C)/date and time points in ISO 8601 format            |                | x      |     |
| <b>Additional data</b>  |                            |   |   |                |        |     |
| MRC250-   | (unassigned)               | Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI      |   |                |        | x   |
| <b>FOR EACH TRADE UNIT HELD FOR SALE</b>  |                            |   |   |                |        |     |
| <b>Identity</b>   |                            |   |   |                |        |     |
| MRC301  | Unit ID <sup>a</sup>       | UTUI  | 100065300555<br>5555571<br>100065300555<br>5555572<br>100065300555<br>5555573 | x              |        |     |
| <b>Production history (related to the logistic or separate trade units, as appropriate)</b>           |                            |   |   |                |        |     |
| MRC302  | Temperature control method | None, iced, refrigerated, iced and refrigerated, etc.   | Iced and refrigerated   |                |        | x   |
| MRC303  | Temperature record         | Temperature/time log (manual/automatic) of product storage area for period between reception and sale | Series of temperature (°C)/date and time points in ISO 8601 format            |                | x      |     |
| <b>Additional data</b>  |                            |   |   |                |        |     |
| MRC350-   | (unassigned)               | Further information elements that describe the trade unit held for sale, linked to UTUI               |   |                |        | x   |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |                            |   |   |                |        |     |

### 6.11 Bringing in supplies from outside the domain

The following information requirements apply to molluscs and materials received from businesses that are not operating to these specifications. This includes the supply of non-fish ingredients to breeders, hatcheries, molluscs farms, processors, and molluscs feed producers. These requirements replace those under the heading for “each unit received”, sub-heading “identities”, in each of the respective tables above, and are additional to the other requirements tabulated. They both identify and provide a description of the received units.

**Table 11 — Bringing in supplies from outside the domain**

| Data element  |                             | Description  | Examples   | Categorization |        |     |
|---|-----------------------------|--|--|----------------|--------|-----|
|   |                             |  |  | Shall          | Should | May |
| <b>FOR EACH UNIT RECEIVED FROM OUTSIDE THE DOMAIN</b>       |                             |  |  |                |        |     |
| <b>Identities</b>   |                             |  |  |                |        |     |
| MOT101  | Unit ID                     | ULUI (if received as a logistic unit) or UTUI (if received as a separate trade unit- or each item other than shellfish brought from outside the domain | Unique national identification number (00)<br>1006530055555<br>55558<br>918817525.076<br>6.000010400<br>918817525.076<br>6.000010401   | x              |        |     |
| MOT102  | Trade unit IDs              | If received as a logistic unit, the IDs of the trade units within the logistic unit  | 918817525.076<br>6.000010400<br>918817525.076<br>6.000010401   | x              |        |     |
| MOT150-   | (unassigned)                | Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI   |  |                |        | x   |
| <b>FOR EACH TRADE UNIT RECEIVED FROM OUTSIDE THE DOMAIN</b> |                             |  |  |                |        |     |
| <b>General description</b>                                  |                             |  |  |                |        |     |
| MOT201  | Creator of unit             | Name, address, and national unique identification number or EAN code of establishment.   | xxx.xxxxxx.<br>xxxxx<br>x.<br>M/SFalcon<br>polymers,<br>Hyderabad,<br>Andhraprad-<br>hesh, India<br>xxx.xxxxxx.<br>xxxxxxx<br>M/S Bharath<br>chemicals<br>Ravipuram,<br>Cochin, Kerala,<br>India | x              |        |     |
| MOT202  | Creator's GMP certification | Names of certification schemes.  | Codex  |                |        | x   |
| MOT203  | Type of unit                | Packing material, additives, etc.  | Insulated<br>Box/cartons,<br>Polyfilm bundle<br>100 kg,<br>Polyphospahte<br>10 kg polythene<br>lined bag, etc.   |                |        | x   |
| MOT204  | Net weight                  | Net weight of received trade unit (kg)   | 10 kg,<br>500 kg, etc.   |                |        | x   |
| MOT205  | Product condition           | Ambient, chilled, or frozen  | Polyphosphate<br>at ambient<br>temperature   |                |        | x   |
| MOT250-   | (unassigned)                | Further information elements that describe each trade unit, linked to UTUI   |  |                |        | x   |



Table 11 (continued)

| Data element   | Description                 | Examples   | Categorization   |        |     |   |
|--|-----------------------------|--|--|--------|-----|---|
|  |                             |  | Shall  | Should | May |   |
| <b>Further description of each trade unit for packaging of molluscan products</b>                                |                             |  |  |        |     |   |
| MOT301   | Name/type of product        | Commercial product name  | Polythene films 150 gauge, Master carton – five ply/ seven ply CFB box RSC/ or two piece lid tray type |        |     | x |
| MOT302   | Product code                | HS code for product type   | 0305410000   |        |     | x |
| MOT303   | Composition                 | Chemical composition   | Food grade Polyethylene 100 %  |        |     | x |
| MOT304   | Date and time of production | ISO 8601 format  | 2010-06-23T12:50   |        | x   |   |
| MOT350-  | (unassigned)                | Further information elements that describe each processed fishery product trade unit, linked to UTUI |  |        |     | x |
| <b>Further description of each trade unit for ingredients to be incorporated in processed molluscan products</b> |                             |  |  |        |     |   |
| MOT401   | Name/type of ingredient     | Descriptive name of ingredient (salt, olive oil, breadcrumbs, or potato flakes, etc.)                | Food grade salt  |        |     | x |
| MOT402   | Composition                 | List of scientific names and % by weight   | NaCl 100 %   |        |     | x |
| MOT403   | Shelf life                  | Best before or sell by date, as appropriate, ISO 8601 format   | Best before 2010-09-23   |        |     | x |
| MOT404   | Preservation                | Ice  |  |        |     | x |
| MOT450-  | (unassigned)                | Further information elements that describe each ingredient, linked to UTUI                           |  |        |     | x |
| <b>Further description for medicine, chemical treatment</b>  |                             |  |  |        |     |   |
| MOT501   | Name/type of product        | Commercial product name  | Sodium metasilicate (13 % Si) 10,60 g per m <sup>3</sup>   |        | x   |   |
| MOT502   | Shelf life                  | Best before or sell by date, as appropriate, ISO 8601 format   | Best before 2011-11-25   |        | x   |   |
| MOT503   | Production date             | Time of packing/labelling at end of line, ISO 8601 format  | 04-09-2010   |        | x   |   |
| MOT504   | Composition                 | List of scientific names and % by weight   |  |        |     | x |
| MOT550-  | (unassigned)                | Further information elements that describe each ingredient, linked to UTUI                           |  |        | x   |   |

## 6.12 Molluscan feed producers

For the purposes of this International Standard, molluscan feed producers are considered to be businesses that produce molluscan feeds based on an indefinite range of ingredients. They can be considered as an equivalent to the processors, but will be presented as a separate link in this International Standard.

Presently, limited artificial feeding is used in bivalve hatcheries and no artificial feed is used in grow-out. In the future, if bivalve hatchery and farming requires the feeds such as micro algal powder/paste or any other novel feeds, the concerned unit (logistic/trade) shall maintain traceability records of feed ingredients/feed production and follow the accepted standard.

**Table 12 — Detailed information for molluscan feed production**

| Data element  | Description                               | Examples   | Categorization   |        |     |   |
|---|---|--|--|--------|-----|---|
|   |   |  | Shall  | Should | May |   |
| <b>MOLLUSCAN FEED</b>   |   |  |  |        |     |   |
| MFE101  | Food business ID                          | Unique national identification number for the organization plus country prefix, as well as name and address of the food business that operates feed company  | M/S XYZ Company<br>Rameshwaram,<br>Tamil nadu,<br>India                    | x      |     |   |
| MFE102  | Feed producer certification scheme        | Names of certification standard and agency   | FSMS,<br>INDOCERT,<br>Aluva  |        | x   |   |
| MFE150-   | (unassigned)                              | Further information elements that describe the organization, linked to feed producer establishment ID  |  |        |     | x |
| <b>FOR EACH UNIT RECEIVED</b>   |   |  |  |        |     |   |
| <b>Identities</b>   |   |  |  |        |     |   |
| MFE201  | Unit ID                                   | ULUI (if received as a logistic unit) or UTUI (if received as a separate trade unit)   | 200653005555<br>555568<br>200653005555<br>555569<br>200653005555<br>555570 | x      |     |   |
| MFE202-   | (unassigned)                              | Further information elements that describe the organization, linked to feed producer establishment ID  |  |        |     | x |
| <b>Source</b>   |   |  |  |        |     |   |
| MFE203  | Previous food business ID                 | Unique national identification number for the organization plus country prefix, as well as name and address or GLN of food business that operates feed producer establishment  | M/S XYZ,<br>fish meal plant,<br>Vishakapatnam,<br>Andhra<br>pradesh, India | x      |     |   |
| MFE204  | Date and time of reception                | ISO 8601 format  | 2010-10-<br>31T14:15   |        | x   |   |
| <b>Control checks (either on logistic or separate trade units)</b>                                    |   |  |  |        |     |   |
| MFE205  | Quality control checks, GMP certification | Type of checks and measured results (organoleptic, physical, chemical, and microbiological, etc.) or indication if records are available in electronic form, on paper, or not available GMP certificate from accredited agency | Yes, paper form<br>BIS   |        |     | x |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |   |  |  |        |     |   |

Table 12 (continued)

| Data element  | Description                                 | Examples  | Categorization  |        |     |   |
|---|---|---|---|--------|-----|---|
|   |   |   | Shall   | Should | May |   |
| <b>Production history</b>   |   |   |   |        |     |   |
| MFE206  | Temperature record                          | Temperature/time log (manual/automatic) of the product holding area for the period between reception and processing       | Series of temperature (°C)/date and time points in ISO 8601 format            |        |     | x |
| <b>Transformation information</b>   |   |   |   |        |     |   |
| MFE207  | Related created trade unit IDs <sup>a</sup> | List of IDs of created trade units that may incorporate part of this received trade unit.                                 | 200653005555<br>555568<br>200653005555<br>555569<br>200653005555<br>555570    | x      |     |   |
| MFE208  | Fractions                                   | Fraction (% , kilos) of the received trade unit that go into each created unit  | UTUI-1 33 %,<br>7250 kg<br>UTUI-2 33 %,<br>7250 kg<br>UTUI-3 33 %,<br>7250 kg |        | x   |   |
| <b>Additional data</b>  |   |   |   |        |     |   |
| MFE250  | (unassigned)                                | Further information elements that describe the received trade/logistic unit, linked to UTUI/ULUI                          |   |        |     | x |
| <b>FOR EACH NEW TRADE UNIT CREATED</b>  |   |   |   |        |     |   |
| <b>Identity</b>   |   |   |   |        |     |   |
| MFE301  | Unit ID                                     | UTUI  | 300653005555<br>555568  | x      |     |   |
| <b>Description</b>  |   |   |   |        |     |   |
| MFE302  | Molluscan live feed                         | Diatoms, flagellates  | <i>Chaetoceros gracilis</i> ,<br><i>Isochrysis galbana</i>                    |        | x   |   |
| MFE303  | Area/country of origin                      | FAO area/RFMO area farmed fish or more specific location (may be several areas)   | 51  | x      |     |   |
| <b>Production history</b>   |   |   |   |        |     |   |
| MFE304  | Process specification                       | Records of process specification are available in electronic form, on paper, or not available                             | Paper   |        |     | x |
| MFE305  | HACCP and Pre-requisites                    | Records of hazard analysis and critical control point checks are available in electronic form, on paper, or not available | Paper   |        |     | x |
| MFE306  | Product form                                | Live feed   | Feed size- 0.3 - 5 mm   |        |     | x |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |   |   |   |        |     |   |

Table 12 (continued)

| Data element  |                                 | Description  | Examples   | Categorization |        |     |
|---|---------------------------------|--|--|----------------|--------|-----|
|   |                                 |  |  | Shall          | Should | May |
| <b>Transformation information</b>   |                                 |  |  |                |        |     |
| MFE307  | Related received trade unit IDs | List of IDs of received trade units that make up this created trade unit   | 200653005555<br>555568<br>200653005555<br>555569<br>200653005555<br>555570             | x              |        |     |
| MFE308  | Fractions                       | Fraction (% + kilos) of the created unit that was made up by each received trade unit                              | UTUI-1 25 %<br>50 kg UTUI-2<br>25 % 50 kg<br>UTUI-3 25 %<br>50 kg UTUI-4<br>25 % 50 kg |                | x      |     |
| <b>Additional data</b>  |                                 |  |  |                |        |     |
| MFE350-   | (unassigned)                    | Further information elements that describe the created trade unit, linked to UTUI                                  |  |                |        | x   |
| <b>FOR EACH LOGISTIC UNIT CREATED</b>   |                                 |  |  |                |        |     |
| <b>Identities</b>   |                                 |  |  |                |        |     |
| MFE401  | Unit ID <sup>a</sup>            | UTUI   | 300653005555<br>555568<br>300653005555<br>555569<br>300653005555<br>555570             | x              |        |     |
| MFE402  | Trade unit IDs                  | The IDs of the trade units within the logistic unit  | 300653005555<br>555568<br>300653005555<br>555569<br>300653005555<br>555570             | x              |        |     |
| <b>Additional data</b>  |                                 |  |  |                |        |     |
| MFE450-   | (unassigned)                    | Further information elements that describe the created logistic unit, linked to ULUI                               |  |                |        | x   |
| <b>FOR EACH UNIT DISPATCHED (either as a logistic unit or a separate trade unit)</b>                  |                                 |  |  |                |        |     |
| <b>Identity</b>   |                                 |  |  |                |        |     |
| MFE501  | Unit ID                         | ULUI (if dispatched as a logistic unit) or UTUI (if dispatched as a separate trade unit)                           | 300653005555<br>555568   | x              |        |     |
| <b>Production history</b>   |                                 |  |  |                |        |     |
| MFE502  | Temperature record              | Temperature/time log of the product (manual/automatic) holding area for the period between processing and dispatch | Series of temperature (°C)/date and time points in ISO 8601 format                     |                |        | x   |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |                                 |  |  |                |        |     |

**Table 12** (continued)

| Data element  |                           | Description   | Examples  | Categorization |        |     |
|---|---------------------------|---|---|----------------|--------|-----|
|   |                           |   |   | Shall          | Should | May |
| <b>Destination</b>  |                           |   |   |                |        |     |
| MFE503  | Next food business ID     | Unique national identification number for the organization plus country prefix, as well as name and address of the food business to whom the unit is dispatched (transporter hatchery or fish farm, etc.) | M/S Kandekadu molluscan farm Chellanam, Kerala, India | x              |        |     |
| MFE504  | Date and time of dispatch | Date and time of transfer to next food business, ISO 8601 format  | 2010-06-20T14:15                                      |                | x      |     |
| <b>Additional data</b>  |                           |   |   |                |        |     |
| MFE550-   | (unassigned)              | Further information elements that describe the dispatched trade/logistic unit, linked to UTUI/ULUI  |   |                |        | x   |
| <sup>a</sup> The same unique ID for raw material/product will continue if there is no transformation. |                           |   |   |                |        |     |

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