ECHA
EUROPEAN CHEMICALS AGENCY

Poison Centres Notification Format

Part A: Preparing a PCN dossier

April 2018

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Legal notice

This document aims to assist users in complying with their obligations under the CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures and Annex VIII. However, users are reminded that the text of the CLP Regulation is the only authentic legal reference and that the information in this document does not constitute legal advice. Usage of the information remains under the sole responsibility of the user. The European Chemicals Agency does not accept any liability with regard to the use that may be made of the information contained in this document.

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1. Introduction

This document provides a technical background and offers a practical guide to Industry on how to encode, prepare and complete a dossier compliant with the poison centres notification format (hereafter PCN format[1]). The XML content and the inner structure of the PCN format is explained in a simple manner avoiding technical details or jargons.

The PCN format defines the data requirements and structure for the submission of information to the Member States appointed bodies. The format has been structured and organised based on the information and data requirements laid out in Annex VIII to CLP Regulation (EC) No 1272/2008. Additionally, it was adjusted and adapted in order to satisfy the stakeholder's requirements with the support of a dedicated working group consisting of experts from industry, Member State appointed bodies and their poison centres.

Among several other design principles, the format was developed taking into account the processing requirements, both in the context of a centralised PCN portal provided by ECHA and especially considering the national Member State systems as final receivers of the information submitted electronically. For this reason, the document should also be seen as a valid support tool for the appointed bodies in the Member States as ultimate recipients of the PCN dossiers in order to understand how the data is organized and structured in the PCN format.

1.1 Conventions used in this manual

This section explains the conventions used in this document in order to make it easier to read.

The following text conventions are used to identify terms and other elements of the format:

- *<Intense Emphasis>* - PCN format Data fields enclosed in angle brackets
- *Italic* - PCN format documents or root entities (e.g. *Substances*, *Mixtures*)
- ***PATH:** - Document xml path*

The document contains cross-references, designed as links, which redirect the reader either to public web pages or to other locations of this document in order to provide supplemental information on the topics. Cross-references are underlined as common links in web pages and normally indicated as follows: See chapter X.X for additional information.

[1] The PCN format is maintained by ECHA and made publicly available free of charge. For additional information, visit the following ECHA web page: https://poisoncentres.echa.europa.eu/poison-centres-notification-format.

1.2 Data types

The PCN format supports numerous data types listed and explained in this paragraph.

Text

It enables the user to enter free text (with no formatting). For *single-line*, *multi-line text*, *text area* and *text template* components, a user is allowed to enter only plain text including letters, numbers and symbols in the selected character set (UTF-8). For *rich text area* the user is allowed to specify formatting options such as font family, size and color, bullets and other text attributes.

Single-line text (255 chars)

It is referred in all IUCLID documents simply as Text (255 Char). Its default maximum length is 255 characters with no line breaks. If the text field contents should be limited to fewer characters, this will be clearly defined.

Multi-line text (2,000 chars)

It is a text field allowing default maximum length of 2,000 characters.

Text area (32,768 chars)

It is a text field allowing a maximum of 32,768 characters. It has the same functionality as the *multi-line text*, differing only in its capacity.

Rich text area

The Rich text area is a large text area where the user can specify fonts, colors, bullets, and other text attributes. The user can also insert and edit (predefined) tables.

Picklist (single)

Picklists contain a collection of pre-defined values from which the user can provide only a single value. Only the corresponding identifiers must be provided in the format and not the actual label or description of the value.

List multi.(multi-select list)

This data-type provides a list of items from which the user can select either one or more values.

Check box

A check box is a simple boolean flag stored as text field that can accept the following values: <true> or <false>.

Numeric

This data-type allows entering numeric values only.

Decimal

This data-type allows entering decimal values only. Decimals must separated with a dot ".".

Numeric range (decimal with picklist)

This data-type allows entering decimal ranges (e.g. concentration levels). It also comes with

additional qualifiers as follows:

1. **Qualifier (lower value)**: It provides a list with the following two operators: >, >=. For exact concentration values no "equal to" sign (=) is provided from the list since this must be indicated by no operator selection (i.e. the qualifier field is left empty).

2. **Numeric field (lower value)**: It allows entering a single numeric value (in most of the cases a decimal value).

3. **Qualifier (upper value)**: It provides a list with following operators: <, <=. No "equal to" sign (=) is provided.

4. **Numeric field (upper value)**: It allows entering a single numeric value (in most of the cases a decimal value).

5. **Unit field**: The Unit field is a Picklist (single) field containing the unit of measurement. The unit field must be specified and can either be "w/w %" or "v/v %". It must be used consistently for all the concentrations provided in the dossier.

Numeric range (decimal) [No Unit field picklist]

This data-type allows entering decimal ranges (e.g. pH ranges). The structure is similar to the previous data-type namely Numeric range (decimal with picklist) however without the <Unit field>.

Attachment

This data-type allows encoding a file attachment (e.g. Safety data sheet).

1.3 Icons, abbreviations and terminology

This manual uses various icons and specific abbreviations throughout. The icons are displayed to highlight useful or important information. The following icons are used:

 Very important note

 Useful information, guidance, assistance

Term or Abbreviation	Explanation
BPR	Biocidal Products Regulation (EU) No 528/2012.
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
Legal entity	A legal entity may represent anything between a complex business structure and a simple organized business (e.g. corporation, company, organization) or a single natural person capable and having the right to engage into contracts or commercial transactions.
ECHA	European Chemicals Agency
EEA	European Economic Area
EU	European Union
EuPCS	European Product Categorisation System
MiM	When a mixture is used in the composition of a second mixture, the first mixture is referred to as a Mixture in mixture (or MiM).
Mixture	A mixture or solution composed of two or more substances (Article 2(8) of CLP).
Substance	A chemical element and its compounds in the natural state or obtained by any manufacturing process, including any additive necessary to preserve its stability and any impurity deriving from the process used, but excluding any solvent which may be separated without affecting the stability of the substance or changing its composition (Article 2(7) of CLP).

Term or Abbreviation	Explanation
Hazard classification	Hazard classification is the process of evaluating the full range of available scientific evidence to determine if a chemical is hazardous, as well as to identify the level of severity of the hazardous effect. When complete, the evaluation identifies the hazard class(es) and associated hazard category of the chemical. [Source: "Hazard Classification Guidance for Manufacturers, Importers, and Employers" – OSHA 3844-02 2016]
IUPAC	International Union of Pure and Applied Chemistry (IUPAC)
(International) Chemical name	The name given to a chemical in the nomenclature system developed by the International Union of Pure and Applied Chemistry (IUPAC) or the Chemical Abstracts Service (CAS) or a name that will clearly identify the chemical for hazard classification purposes.
Synonym	Another name or names by which a material is known (e.g. Methyl alcohol is also known as 'methanol' or 'wood alcohol').
Reference substance	A Reference substance is a single document used (in IUCLID) to define the identity of a Substance, in such a way that the definition may be re-used in more than one location. This provides consistency and avoids duplication of work. A Reference substance contains both the chemical identifiers and the structural information. Note: new reference substances can be created (with new data from the beginning), but in case the substance is well-known and already exists, it would be more efficient to take a ready-made one from the public collection published on the IUCLID website (https://iuclid6.echa.europa.eu/web/iuclid/get-reference-substances).
(IUCLID) Document	A document is the generic designation of a set of information that can be entered in the PCN Format. A document is also the standard set of data that exists in a substance dataset and compose the nodes of the table of contents. Documents are discriminated between *records* and *summaries*, which in turn are separated in *fixed records*, *flexible records*, *endpoint study records*, *flexible summaries* and *endpoint summaries* respectively.
Endpoint study record	In Substance or Mixture/Product datasets, an endpoint is an information requirement or data point with regard to the physico-chemical properties of the substance, environmental fate and behaviour, ecotoxicological information, toxicological information and specific information (e.g. effectiveness against target organisms or residues in food and feeding stuffs) according to a given chemical regulatory programme. In a wider sense, also additional information related to endpoints is included, i.e. guidance on safe use, information on literature search and a container section for attaching assessment reports. The specific PCN information requirements are described later in this document.

Term or Abbreviation	Explanation
Endpoint summary	Endpoint summary records can be added throughout the section hierarchy for summarising the most critical results and conclusions of a given Endpoint section.
Flexible records	Similar to the endpoint study records or to the endpoint summary, this name was used for different sections in IUCLID where the information stored in the record is not a study.
Block	A block or repeatable block is a set of fields grouped because of common business behaviour or database dependency. They are grouped and commonly identified in order to be reused throughout the application. When a block is repeatable it means that all the fields in the same group can be provided multiple times (in the same set).
Dataset	A dataset (or data set) is a collection of related sets of information (e.g. a Substance/Mixture dataset) that is composed of separate documents.
MSCA	Member State Competent Authority
PCN	In the context of CLP Art.45 and Annex VIII, a notification or PCN (Poison Centre Notification) is the outcome of a valid and successful electronic submission (i.e. resulting in a positive outcome after processing) of the information required in a dossier fulfilling the technical data requirements.
REACH	Registration, Evaluation, Authorisation of Chemicals. Regulation (EC) No 1907/2006.
SDS	Safety data sheet
UFI	Unique Formula Identifier – The UFI is a 16-character alphanumeric code required on the product's label and an information requirement for PCN dossier, in which the submitter links this code to the mixture composition.
XML	eXtensible Markup Language
TOC	Table of content for a specific dataset
OECD	Organisation for Economic Co-operation and Development. The OECD is an intergovernmental economic organisation with 35 member countries, founded in 1961 to stimulate economic progress and world trade.

Term or Abbreviation	Explanation
Concentration	The mixture concentration (in chemistry) is the abundance of a constituent divided by the total volume or mass of a mixture. Several types of mathematical description can be distinguished however in the context of Annex VIII, the concentrations in a mixture can be expressed as exact percentages, in descending order either by mass or by volume.
w/w %	Weight by weight percent concentration.
v/v %	Volume/volume percent concentration.
Dossier	A dossier or IUCLID dossier represents the collection of all the scientific and administrative information at any given time (snapshot) fulfilling the legal data requirements (CLP Article 45 and Annex VIII) needed in order to notify and place the mixture in a specific market.
UUID	A universally unique identifier (UUID) is a 128-bit number used to identify data and information in computer systems.
Submission	A submission is an event resulting from the transmission of a Dossier prepared and submitted electronically.
Submission number	A submission number is a unique number that can be generated and associated with a valid PCN by any system receiving the dossier, if needed. The submission number can be used to uniquely identify each submission, track the status and establish a reference to the previous PCN notification in case of updates.
IUCLID	International Uniform ChemicaL Information Database, is a software application system for managing data on intrinsic and hazard properties of chemical substances and mixtures for accurate reporting to the regulatory authorities.

1.4 IUCLID format compatibility

The PCN format is compatible with IUCLID and it is based on the same format. During the feasibility study performed in 2017 it was identified that reusing an existing format, already harmonised at the OECD level, and used for submission of chemical information to ECHA according to the REACH (art. 111), CLP (art. 40) and BPR (art. 79) regulations, would bring benefits such as the possibility to reuse existing tools developed by ECHA.

The information is organised in *IUCLID Documents* that gather all relevant data fields for a specific type of information (e.g. pH results, classification and labelling, packaging). These documents are grouped in so-called '*legislations'* in order to indicate whether they are meant to be reused (all documents part of the 'IUCLID CORE' or the 'OECD legislations') or if they are specific to a single regulation/context (e.g. 'EU CLP' or 'EU REACH').

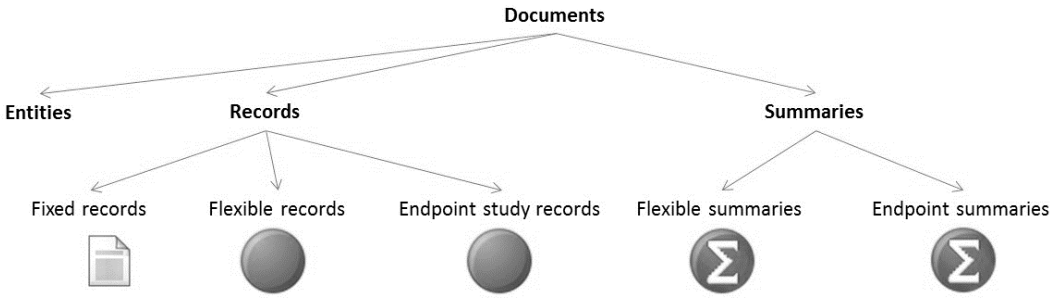
All the data is entered and stored in logical 'datasets' containing documents. When all the data have been prepared and encoded, all the datasets should then be assembled together in a final compressed file called 'dossier' (.i6z extension file). A dossier containing all the required information can then be submitted or transmitted electronically to the Member States appointed bodies.

In order to ensure the data referential integrity and maintain the correct relationship between the various documents contained in the final dossier, a numeric identifier called a Universal Unique Identifier (UUID) must be generated and associated to each and every document contained in the dossier, acting as an unequivocal identifier. Additionally also the dossier itself must be identified with a different UUID (also known as Snapshot UUID) each time is created or exported in order to be submitted.

Each *legislation* comes with its own valid set of *documents*. The PCN format is part of the CLP *legislation's* definition.

The term entity in this document refers to a set of data that form an object with common characteristics. Entities are documents that can exist on their own (vs records and summaries that can exist only as linked to an entity (substance or mixture). They are the entry point documents for a set of documents (datasets). Substance and Mixtures are an example of root entities.

The term *document* is going to be used throughout this document in order to indicate entities, *records* and *summaries documents as illustrated in the diagram below:*



The latest version of IUCLID can be downloaded free of charge from the IUCLID website at the following address: https://iuclid6.echa.europa.eu/home. For more details about the installation and use of IUCLID 6 go to the website's Support tab.

2. Information required for a PCN notification

The data and information to be included in a PCN are described in the CLP Regulation Annex VIII to the CLP Regulation[2] on the classification, labelling and packaging of substances and mixtures. ECHA provides the regulatory guidance to facilitate the implementation of Annex VIII to the CLP Regulation. The regulatory guidance clarifies the interpretation of the requirements and give recommendations on how to best fulfil the obligations. The regulatory guidance document is being developed with the participation of stakeholders from Member States authorities, poison centres and industry associations. The draft regulatory guidance has been published by ECHA and undergoes a formal consultation procedure. It is expected to be finalised by the end of 2018.The information below refers to technical practicalities of complying with Annex VIII to CLP.

2.1 Standard submission information requirements

Technically, the requested information in a standard submission comprises the following documents (the corresponding name of the documents are indicated in brackets):

- The Mixture identification (*MIXTURE*) containing a single link to:
- The Legal Submitter document, including the name, full address, telephone number and email address (*Legal entity* - Submitter);
- The Mixture composition (*FLEXIBLE_RECORD.MixtureComposition*), including the components concentrations, linked either to individual Substance datasets and/or MiM datasets (*SUBSTANCE* and/or MiM *MIXTURE* datasets);

  Note: this document may also contain generic components identified with the Generic component identifiers with the field <function>. For these generic components, a dataset is not needed.

- The Mixture pH where applicable (*FLEXIBLE_SUMMARY.ph*);

  Note: if the pH is not applicable, the document must be provided with the check box (flag) <pH is not relevant> set to <true>.

- Mixture Classification and labelling elements, including hazard classes, hazard categories, hazard statements, hazard pictograms, signal words and precautionary statements (*FLEXIBLE_RECORD.Ghs*);

  Note: this document is always needed even in case the MiM is non-hazardous or not classified according to CLP criteria. In this cases, the field <Not classified> of the document must be set to <true>.

- The Mixture Physical state, colour, intensity and form *(ENPOINT_SUMMARY.GeneralInformation)*
- The Mixture toxicological information as required in Section 11 of the Safety Data Sheet of the mixture (*FLEXIBLE_RECORD.SDSInfoMixture*)
- The product information, including the product trade names and/or synonyms, the product use category, the use types and the applicable countries where the mixture will be placed. The document should contain links when applicable to the following documents that should also be part of the dossier:

[2] Regulation (EC) No 1272/2008 of the European Parliament and Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006 [OJ L 353, 31.12.2008, p. 1].

- The Unique formula identifiers (UFI) (*FLEXIBLE_RECORD.Identifiers*);
- The Packaging information, including packaging type and size of the product (*FLEXIBLE_RECORD.Packaging*);

2.2 Group submission information requirements

In addition to the information required in a standard submission (See section **Standard submission**) the requested information in a group submission[3] comprises the following documents (the corresponding documents of the format are indicated in brackets):

- The Group mixture composition valid for the Group submission, corresponding to the common or shared composition (*FLEXIBLE_SUMMARY.ProductComposition*);
- When applicable and allowed by the regulation, the specific differences of the various mixture compositions for each individual mixture of the group (*FLEXIBLE_RECORD.MixtureComposition*);
- The product information (*FLEXIBLE_SUMMARY.ProductComposition*) should additionally contain links to the following documents establishing a correct relationship depending on the business needs with the different mixtures of the group:
    - Mixture composition (*FLEXIBLE_RECORD.MixtureComposition*)
    - The Unique formula identifiers (UFI) (*FLEXIBLE_RECORD.Identifiers*);

When the dossier contains a group submission it is mandatory to set also the check box of the field *<GroupSubmission>* of the Dossier Header to <true> (See Encoding the Dossier Header section for additional information).

In a group submission, multiple classifications may exist for each mixture of the group. In this case an optional link can be established between the GHS documents *(FLEXIBLE_RECORD.Ghs)* and the specific mixture compositions of the group.

2.3 Limited submission information

In a limited submission[4] (i.e. optional alternative to the standard submission for mixtures intended for industrial use only), the list of mixture components and concentrations to be provided may be limited to that included in the Safety Data Sheet (SDS Section 3.2).

Practically the information provided in case of limited submission will just be less detailed than a standard submission and the final PCN may not contain the full composition of the mixture.

In addition to all the documents listed for the standard submission information (See section **Standard submission requirements**) the requested information in a limited submission comprises also the following documents (the corresponding documents of the format are indicated in brackets):

- Contact details for rapid access to additional product information (*Contact person*);

[3] The general conditions under which a 'group submission' is allowed are specified in Section 4, part A of Annex VIII to the CLP regulation.

[4] The general conditions under which a 'limited submission' is allowed are specified in Section 3.1.1. of Annex VIII to the CLP regulation.

When the dossier contains a limited submission it is mandatory to set also the check box of the field *<LimitedSubmission>* of the Dossier Header to <true>. For additional information see section Encoding the Dossier Header.

2.4 Substance information

The requested information in a substance dataset comprises the following documents (the corresponding name of the documents are indicated in brackets):

- The substance identity (*Substance*), including all the substance identifiers, linked to the following documents that shall also be part of the substance dataset:
- The corresponding reference substance (*REFERENCE_SUBSTANCE*) linked to an EC entry whenever applicable:
- EC Inventory entry (*EC Inventory*);
- Substance Classification if applicable, according to the criteria set in the CLP Regulation (FLEXIBLE_RECORD.Ghs);

2.5 Mixture in Mixture information (Known components)

The requested information in a Mixture in Mixture dataset, when the MiM components are known (e.g. from SDS or otherwise provided by the MiM Supplier) comprises the following documents (the corresponding name of the documents are indicated in brackets):

- The MiM identification (*MIXTURE*) containing a single link to:
- The Unique formula identifiers (UFI) recorder either as single or multiple values (*FLEXIBLE_RECORD.Identifiers*);
- MiM Classification and labelling if applicable, according to the criteria set in the CLP Regulation (*FLEXIBLE_RECORD.Ghs)*;

  Note: this document is always needed even in case the MiM is non-hazardous or not classified according to CLP criteria. In this cases, the field <Not classified> of the document must be set to <true>.
- The MiM composition (*FLEXIBLE_RECORD.MixtureComposition*), including the components concentrations and linked either to individual substance datasets and/or MiM datasets (*SUBSTANCE* and/or MiM *MIXTURE* datasets);

See also Appendix 3 - Mixture in Mixture (MiM) - Known components

2.6 Mixture in Mixture information (Limited dataset)

The requested information in a MiM limited dataset, when the mixture composition is not known (e.g. not communicated by the MiM supplier) comprises the following documents (the corresponding name of the documents are indicated in brackets):

- The MiM identification (*MIXTURE*) containing a single link to:
- The MiM CLP Classification and labelling whenever applicable and according to the criteria set in the CLP Regulation (*FLEXIBLE_RECORD.Ghs)*;
- The MiM Safety data Sheet (FLEXIBLE_RECORD.SDSInfoMixture)

- The MiM Supplier details (*Legal entity* – MiM Supplier);

See also Appendix 4 - Mixture in Mixture (MiM) – Limited dataset

3. Datasets table of content (TOC) and Dossier

A dataset is a central core of information, containing information on the intrinsic properties of a specific substance, mixture or mixture in mixture, and its constituents. It is thus the repository of technical and scientific data related to all the mixture components and the mixture itself.

In order to assist the Industry users with the data entry, the documents are logically organised in datasets using a specific table of content (TOC) for each individual dataset. This also allows re-using the individual datasets in different notifications.

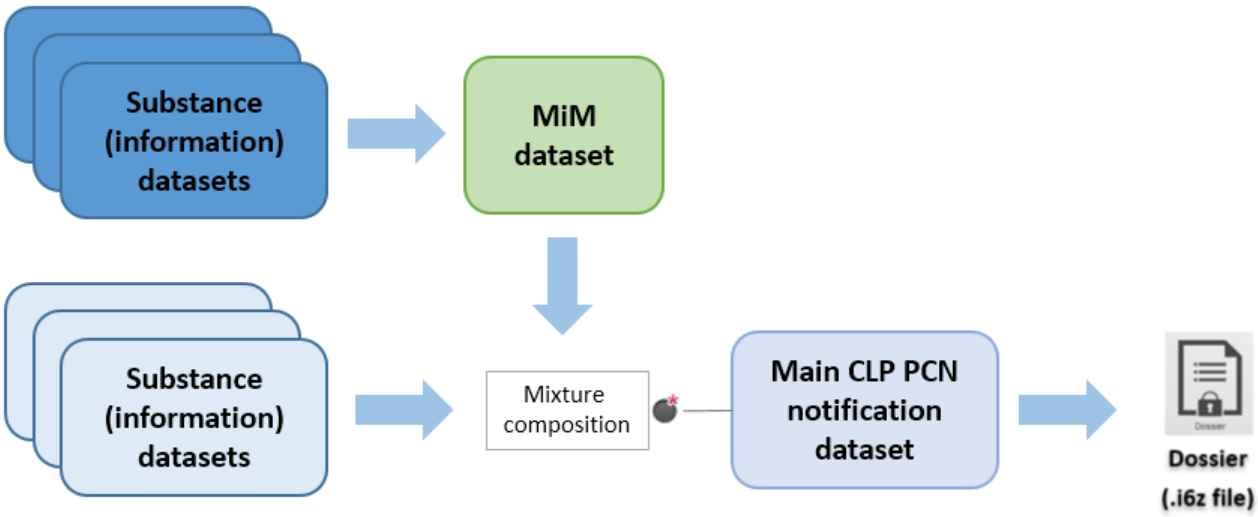
The PCN format provides 3 different dataset types and corresponding TOC:

- a 'Mixture CLP PCN (Poison Centre Notification)' main dataset;
- a 'Substance (information)' dataset; and
- a 'MiM (Mixture in Mixture)' dataset

Different '*Substance (information)*' datasets can be created for each component of the mixture, along with one single main '*Mixture CLP Poison Centre Notification*' dataset. This approach must be followed in both standard, limited and group submissions. However, in a group submission, the individual mixtures of the group should be identified in different *Mixture composition* documents (for additional information see section Mixture composition).

All these individual datasets for all the components should then be linked and referenced from the *Mixture composition* document in order to create a valid dossier (See Figure 1).

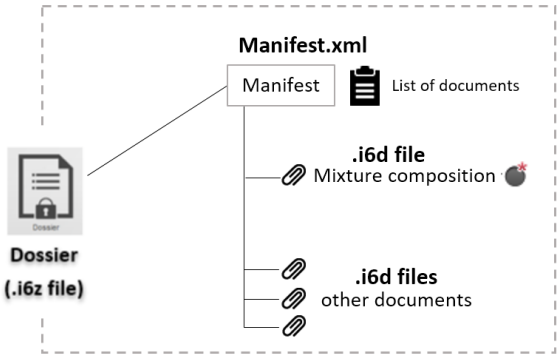
Figure 1: Standard submission – Datasets link



3.1 Dossier

A dossier should be seen as the final snapshot file (XML-based formatted – file extension ".i6z") based on the existing datasets and raw data entered during the data preparation. The dossier must contain all the relevant information in single XML files (file extension ".i6d") representing and corresponding to the various documents. The dossier must also contain a manifest file ("manifest.xml") containing a table of contents with all the data files (including file attachments e.g. SDS) and documents that are available in the dossier.

Figure 2: Dossier file and Manifest



3.2 Mixture CLP PCN (Poison Centre Notification) dataset

The main Mixture dataset contains the following documents:

Document	Document name	Links to other documents
Mixture identification	*MIXTURE*	• [single] Link to: Legal submitter *LEGAL_ENTITY* • [multiple] Link to: Emergency contact* *CONTACT* *Applicable in case of Limited submission only
Mixture unique formula identifiers (UFI)	*FLEXIBLE_RECORD.Identifiers*	
Mixture composition	*FLEXIBLE_RECORD.MixtureComposition*	• [multiple] Links to: Substance dataset *SUBSTANCE* and/or MiM dataset *MIXTURE*
Group Mixture composition * *Applicable in case of Group submission only	*FLEXIBLE_SUMMARY.ProductComposition*	• [multiple] Links to: Substance dataset *SUBSTANCE* and/or MiM dataset *MIXTURE*

Document	Document name	Links to other documents
Physical state, colour, intensity and form	*ENPOINT_SUMMARY.GeneralInformation*	
Product information	*FLEXIBLE_RECORD.ProductInfo*	• [multiple] Links to: Mixture composition *FLEXIBLE_ RECORD.MixtureComposition* • [multiple] Link to: Mixture unique formula identifiers (UFI) *FLEXIBLE_RECORD.Identifiers* • [multiple] Link to: Packaging *FLEXIBLE_RECORD.Packaging* • [multiple] Link to: Physical state, colour, intensity and form *FLEXIBLE_RECORD.GeneralInformation* • [multiple] Link to: Mixture Safety data sheet *FLEXIBLE_RECORD.SDSInfoMixture*
pH	*ENPOINT_SUMMARY.pH*	
Mixture Classification & Labelling	*FLEXIBLE_RECORD.Ghs*	• Optional [multiple] Links to: Mixture composition *FLEXIBLE_ RECORD.MixtureComposition** *Group submission only
Packaging	*FLEXIBLE_RECORD.Packaging*	
Mixture Safety data sheet & Toxicological information	*FLEXIBLE_RECORD.SDSInfoMixture*	

3.3 Substance (information) dataset

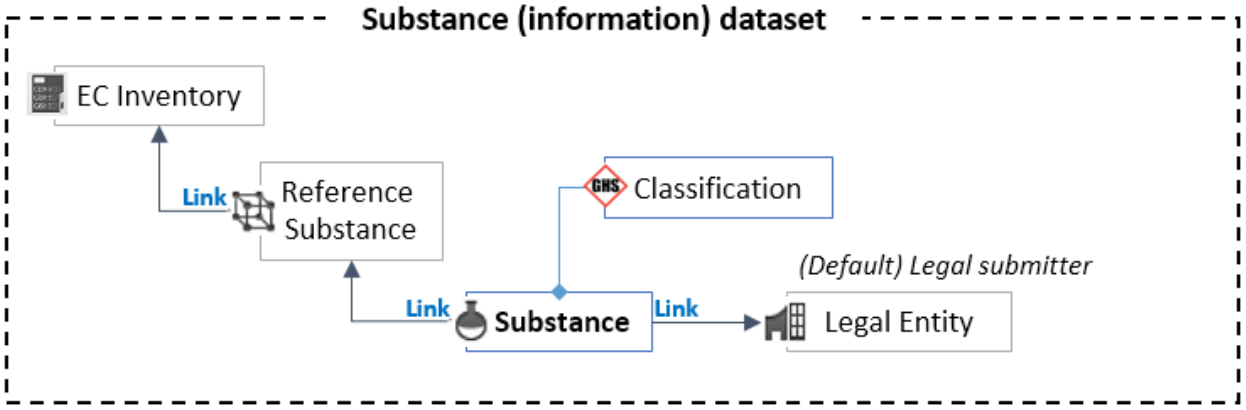
⚠ The substance classification document must always be provided in a dossier even in cases when the substance is not considered as hazardous for emergency health response under Annex VIII CLP. In this cases the field *<Not classified>* of the document *FLEXIBLE_RECORD.Ghs* must be set to <*true*>.

The substance dataset contains the following documents:

Document	Document name	Links to other documents
Substance identification	*SUBSTANCE*	• [single] Link to one Reference substance (*REFERENCE_SUBSTANCE*) ○ [single] Link to EC entry (*EC inventory*)
Substance Classification	*FLEXIBLE_RECORD.Ghs*	

The diagram in Figure 3 here below illustrate the inner links and relationships in a substance (information) dataset.

Figure 3: Substance (information) dataset



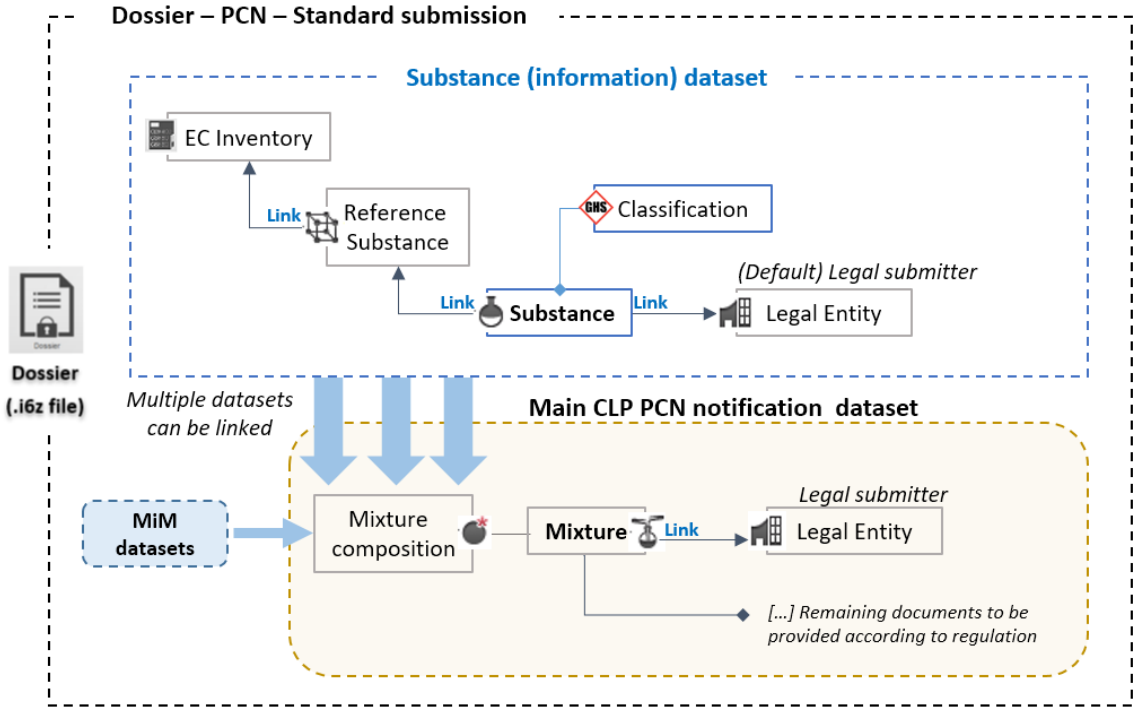
3.4 MiM (Mixture in Mixture) dataset

The MiM dataset may contain different documents. Not all documents are required at the same time, as this depends on the different cases explained in section

Encoding the Mixture in Mixture (MiM) dataset. For additional information on the links between a MiM dataset and a Substance dataset see diagram in Figure 4.

Document	Document name	Links to other documents
MiM identification	*MIXTURE*	
MiM unique formula identifiers(UFI)	*FLEXIBLE_RECORD.Identifiers*	
MiM composition	*FLEXIBLE_RECORD.MixtureComposition*	• [multiple] Links to: Substance dataset *SUBSTANCE* and/or MiM dataset *MIXTURE*
MiM Suppliers	*FLEXIBLE_RECORD.Suppliers*	• [single] Link to MiM Supplier (*LEGAL_ENTITY*)
MiM Classification & Labelling	*FLEXIBLE_RECORD.Ghs*	
MiM Safety data sheet & Toxicological information	*FLEXIBLE_RECORD.SDSInfoMixture*	

Figure 4: Links between a Substance dataset and a MiM dataset



4. Encoding the Mixture CLP PCN main dataset

4.1 Legal submitter

In the context of CLP Article 45, the Legal Submitter has the responsibility as duty holder or legal owner for submitting information on hazardous mixtures placed on the market in the different EU Member States for consumer, professional and industrial use.

The Legal submitter is also responsible for the creation and management of the *Legal Entity* details contained in the final dossier using the PCN format. A *Legal Entity* must contain all the administrative information on the Legal Entity submitter, such as the name, address, phone and email address. In addition, the details provided are used by the Member State appointed bodies to clearly identify the Legal submitter.

A numeric identifier namely a Universal Unique Identifier (UUID) must be generated and assigned to each *Legal Entity*, acting as an unequivocal identifier (See also section

IUCLID format compatibility). A Legal submitter must be represented by one single UUID. Duplicates are not allowed and must be avoided in order to ensure data consistency.

It should be reminded that it is also possible to create a *Legal Entity* document containing the details of the Legal submitter using IUCLID or *ECHA accounts*. If not yet registered the Legal submitter could also optionally register the details using the sign-up procedure offered in ECHA Accounts where is also possible to encode, administer and export the Legal Entity information. The exported file (LEO)[5] can then be easily imported in the dossier for submission. For more information on the ECHA account management refer to the ECHA accounts manual available at http://echa.europa.eu/support/helpdesks/echa-helpdesk/echa-accounts.

The *LEGAL_ENTITY* document structure can be used in the PCN format to describe either the Legal submitter or the MiM supplier whenever applicable for Mixture in Mixtures (MiM). In some cases, two or more *LEGAL_ENTITY* documents (identified with different UUIDs) can be present at the same time in different datasets in the final dossier. For this reason, it is mandatory to establish the correct links between:

- the *MIXTURE* document and the correct *LEGAL_ENTITY* document representing the Legal submitter; and
- the *MiM Supplier* document (*FLEXIBLE_RECORD.Suppliers*) whenever relevant and

[5] The Legal Entity contact details of the company can be imported, stored and exported from ECHA Accounts as a LEO namely a Legal Entity Object.

applicable, and the correct *LEGAL_ENTITY* document.

It is only possible to link a single *LEGAL_ENTITY* document representing the Legal submitter from the MIXTURE document. This is also valid in case of group submissions, the grouped mixtures all have to be placed on the market by the same importer or downstream user. A group submission can only refer to one 'legal submitter' encoded in the *LEGAL_ENTITY* document. It is not possible to group mixtures that are placed on the market by different companies, for example by private label customers.

LEGAL_ENTITY - Field definitions

Field	Path and Description
Legal entity name	**LEGAL_ENTITY.GeneralInfo.LegalEntityName** Mandatory - Text (255 char.) – Company name
Address 1	**LEGAL_ENTITY.ContactInfo.ContactAddress.ContactAddress.street1** Mandatory - Text (255 char.) – Company address
Address 2	**LEGAL_ENTITY.ContactInfo.ContactAddress.ContactAddress.street2** Optional - Text (255 char.) – Company address
Postal code	**LEGAL_ENTITY.ContactInfo.ContactAddress.ContactAddress.zipcode** Mandatory - Text (255 char.) – Company postal code
Town	**LEGAL_ENTITY.ContactInfo.ContactAddress.ContactAddress.city** Mandatory - Text (255 char.) – Company town or city
Country	**LEGAL_ENTITY.ContactInfo.ContactAddress.ContactAddress.country** Mandatory – Picklist (single) A31 - v2.0 – Company country -
Phone	**LEGAL_ENTITY.ContactInfo.ContactAddress.ContactAddress.phone** Mandatory - Text (255 char.) – Company phone number
Email	**LEGAL_ENTITY.ContactInfo.ContactAddress.ContactAddress.email** Mandatory - Text (255 char.) – Company email address

4.2 Emergency contact

The Emergency contact (*CONTACT*) document contains the contact details for rapid access to additional product information (24 hours/7 days). The document must be provided only in case of a limited submission.

One single document must be provided for each country (where the mixture is placed) even if the same number and email are applicable for all the countries.

If the mixture is placed in one single country, only one *CONTACT* document must be provided containing the applicable country.

CONTACT - Field definitions

Field	Path and Description
Contact type	**CONTACT.GeneralInfo.ContactType** Mandatory – Picklist (single value) Mandatory Value: "Emergency contact"
Organization	**CONTACT.GeneralInfo.Organisation** Mandatory - Text (255 char.) Organization / Legal entity name to be contacted by Appointed bodies for rapid access to additional product information (24x7).
Phone	**CONTACT.GeneralInfo.Phone** Mandatory - Text (255 char.) Telephone number accessible 24 hours per day and 7 days per week, where 'additional detailed product information', which are not included in the SDS but would be requested by Annex VIII, can be obtained by a responsible authority and/or [any] medical personnel, dealing with a poisoning/ health incident
Email	**CONTACT.GeneralInfo.Email** Mandatory - Text (255 char.) E-mail address for follow-up exchange of information between the Legal submitter and the responsible authority or medical personnel as required by regulation 2017/542 Annex VIII - PART C par. 1.2.
Country	**CONTACT.GeneralInfo.Country** Mandatory - Picklist (single value) – N03 – v1.0 This field represents the country where the emergency contact is applicable depending on the where the Mixture will be placed on the market.

4.3 Mixture identification

The Mixture identification document should be considered as the starting point or the core document in a dossier containing a PCN notification.

MIXTURE - Field definitions

Field	Path and Description
Mixture/Product name	**MIXTURE.MixtureName** Optional - Text (2,000 char.) This field is not required from a regulatory perspective, however, it is mandatory for IUCLID compatibility reasons. It can be used internally and for reference purposes in order to easily identify the mixture (or the product) if needed. Any name or chemical identifier for the Mixture (or product) can be used. It is however recommended to provide an internal identifier which is commonly used for that mixture within the company. Possibly this will allow an easier identification in a very large chemical portfolio.
Legal entity owner	**MIXTURE.OwnerLegalEntity** Mandatory • Link to Legal submitter *(LEGAL_ENTITY)* This field must always contain an association with the Legal submitter of the PCN notification. This is achieved by creating a link to the LEGAL_ENTITY document. For additional information see also section Legal submitter.
Contact persons – Start of Repeatable block	
Person	**MIXTURE.ContactPersons.ContactPerson** Mandatory for Limited submission - Entity reference field • Link to Emergency contact *(CONTACT)* Note: the PCN format allows to specify multiple emergency contacts per country if needed.
Contact persons – End of Repeatable block	

4.4 Mixture Unique Formula Identifiers (UFI)

The unique formula identifier, known by its acronym UFI, is a 16-character alphanumeric code that will be required on the product's label. One UFI should be linked to only one mixture composition, to allow unique link between the UFI on the label and composition declared in the dossier. The same UFI can never be associated with mixtures of different composition. For data management or commercial reasons, more than one UFI can be assigned to the same mixture. In this case, each product would have its own UFI, even if it contains the same mixture.

The PCN format allows to encode one or more documents as follows:

- One single UFI per single document
- Several UFI encoded in a group per single document (using the repeatable block)

How identifiers are organized and/or encoded depends entirely on how the UFI will be associated with the relevant products in a standard submission and products/mixtures in a group submission.

For additional information on how to associate a UFI or group of UFIs to a product see section Product information.

FLEXIBLE_RECORD.Identifiers - Field definitions

Field	Description
Regulatory programme identifiers – Start of Repeatable block	
Regulatory programme	**FLEXIBLE_RECORD.Identifiers.RegulatoryProgrammeIdentifiers.RegulatoryProgrammeIdentifiers.RegulatoryProgramme** Mandatory – Picklist (single value)* - Mandatory field value: 64856 This picklist allows the selection of many other pre-defined identifiers type for IUCLID compatibility reasons, however, the only mandatory value that must be used is 64856 corresponding to "CLP unique formula identifier (UFI)".
ID	**FLEXIBLE_RECORD.Identifiers.RegulatoryProgrammeIdentifiers.RegulatoryProgrammeIdentifiers.Id** Mandatory - Text (255 char.) – UFI 16-character alphanumeric code This field allows encoding a single Unique Formula Identifier. If additional UFI are needed to identify the Mixture another repeatable block can be added to the document.
Remarks	**FLEXIBLE_RECORD.Identifiers.RegulatoryProgrammeIdentifiers.RegulatoryProgrammeIdentifiers.Remarks** Optional – Text area This optional field can be used for internal purposes and allows encoding remarks related to a single Unique Formula Identifier.
Regulatory programme identifiers – End of Repeatable block	

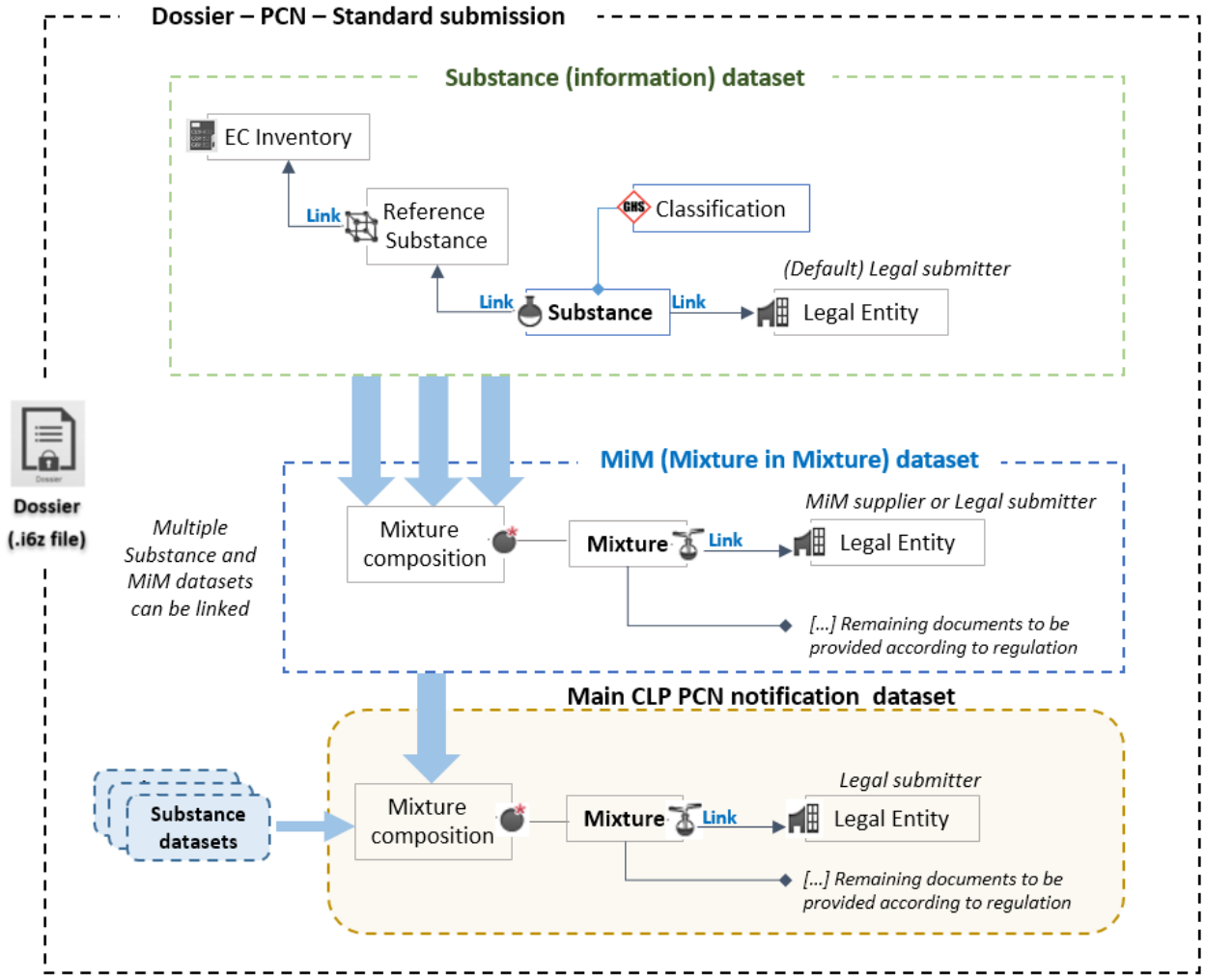
4.5 Mixture composition

The Mixture composition document contains the relevant information concerning the components (or ingredients) of the Mixture.

Standard submission

In a standard submission, only one mixture composition document must be provided. The mixture composition must contain all the mixture components with the relevant concentrations or concentration ranges linked to the corresponding datasets (Substances or MiM). In case of generic components, a link to a dataset is not needed and only the function along with the concentration should be provided.

Figure 5: Mixture composition links with datasets



Limited submission

In a limited submission, only one mixture composition document must be provided. The known mixture components can be provided in the same manner as described for a standard submission.

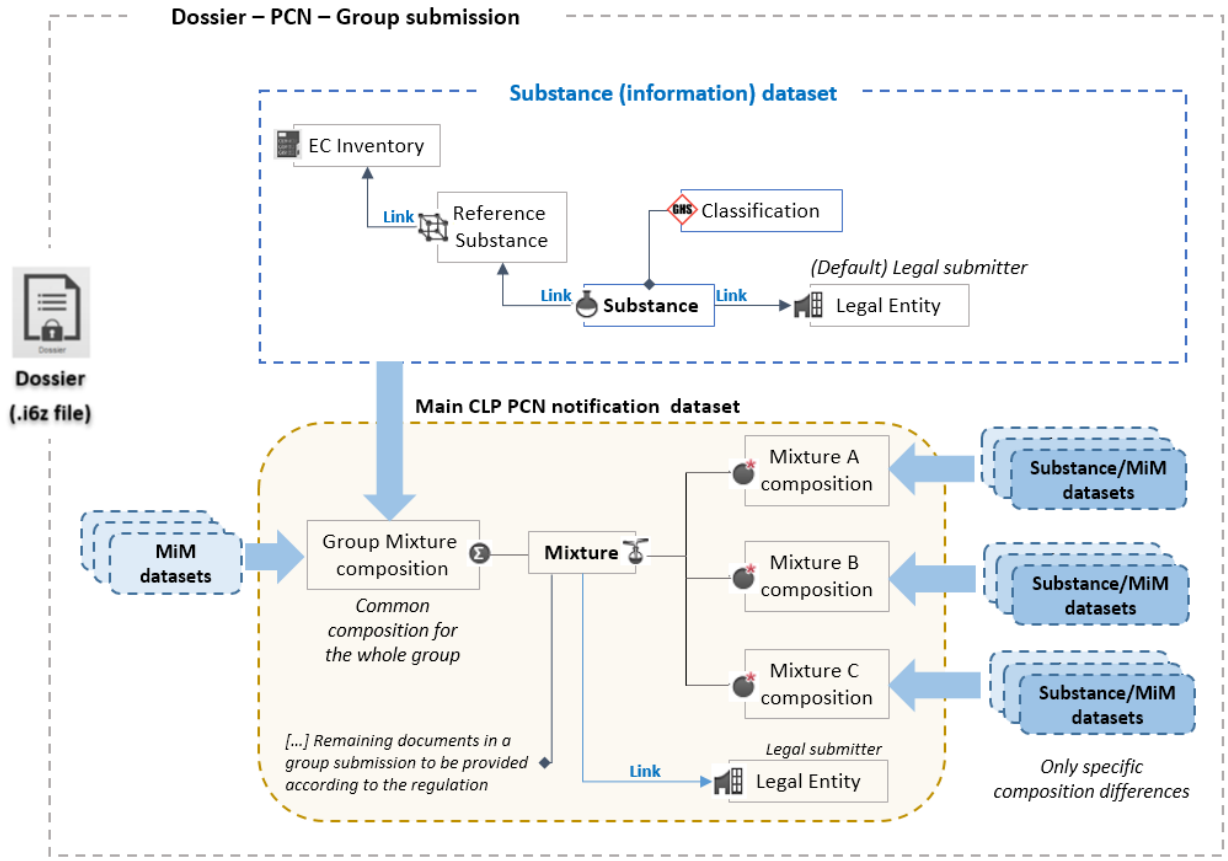
Group submission

In a group submission, several mixture compositions documents can be provided, each one representing the different compositions of the specific mixture in the group.

⚠ Only the specific composition differences for each individual mixture of the group must be encoded since the common or shared composition must be recorded in a different document. For additional information see section Group Mixture composition.

In a group submission, it is also possible to reference this document from one or more products in the dossier in order to establish the correct relationships with other documents of the notification (e.g. UFI, packaging etc.) For additional information see section Product information.

Figure 6: Group submission – Datasets link



FLEXIBLE_RECORD.MixtureComposition - Field definitions

Field	Description
Mixture/product name	**FLEXIBLE_RECORD.MixtureComposition.GeneralInformation.Name** Optional - Text (255 char.) This field is not required from a regulatory perspective and it is also not mandatory for IUCLID compatibility reasons, however, it can be used internally and for reference purposes in order to easily identify the mixture composition. For example in a group submission when several mixture compositions are encoded it may be useful to assign an internal identifier to distinguish the mixtures of the group (e.g. product/mixture name). In case of standard submissions, there is only one mixture composition document, and the name of the mixture/product can also be left empty.
Components – Start of Repeatable block	

Name **FLEXIBLE_RECORD.MixtureComposition.Components.Components.Reference**

Mandatory if the component is not identified with a Generic product identifier (See Function field).

Entity reference field:

- Link (single) to Substance dataset (*SUBSTANCE); or*
- Link (single) to MiM dataset (*MIXTURE)*

This field allows linking either a substance or a mixture in mixture (dataset) for fully identifying the mixture component under consideration. This is done by creating a single link with the desired dataset created previously.

For additional information on how to provide the information for each Mixture component see Sections: Encoding the Substance (information) dataset and

Encoding the Mixture in Mixture (MiM) dataset.

Function	**FLEXIBLE_RECORD.MixtureComposition.Components.Components.Function** Mandatory only in case of a generic component identified as with a generic product identifier. Picklist (single) - N28A - v2.0. It is possible to provide the specific function of the component between a predefined list of values: • 64942 - "Perfume" • 2824 - "Fragrance" • 2756 - "Colourant" If a mixture component is a 'Generic product identifiers', the substance dataset (or the MiM dataset) is not needed and must not be linked.
Concentration range	**FLEXIBLE_RECORD.MixtureComposition.Components.Components.ConcentrationRange** Mandatory - Numeric range (decimal) with Picklist (single) N24 v1.0. This field allows encoding the component concentration either as exact or range percentages. Concentrations can be expressed using the following mandatory Picklist (single) values: • 2505 - "% (w/w)"; or • 2506 - "% (v/v)" The selected picklist (single) value must be consistent for all the components provided in the mixture composition. When encoding concentration ranges it is also possible to specify the upper and lower limits percentages for each of the component using the following qualifiers: • ">" or ">=" for the lower numeric value; and • "<" or "<=" for the upper numeric value
Components – End of Repeatable block	

4.6 Group Mixture composition

The Group Mixture composition document contains the relevant information concerning the common ingredients of the Mixtures in a group.

In a group submission, one single document must be provided in order to encode the common or share mixture composition for the whole group of mixtures.

The specific differences for each individual mixture of the group must also be encoded. For additional information see section Mixture composition.

The composition repeatable block is mandatory: at least one component must be present.

FLEXIBLE_SUMMARY.ProductComposition - Field definitions

Field	Description
Product family or group name	**FLEXIBLE_SUMMARY.ProductSummaryComposition.ProductSummaryComposition.ProductFamilyGroupName** Optional - Text (255 char.) This field is not required from a regulatory perspective and it is also not mandatory in the format, however, it can be used for internal reference purposes in order to easily identify the composition of the group of mixtures.
Composition – Start of Repeatable block	
Function	**FLEXIBLE_SUMMARY.ProductSummaryComposition.ProductSummaryComposition.Composition.Function** Mandatory only in case of a generic component identified as with a generic product identifier. The field must be left empty when a substance or MiM dataset is linked as a component. Picklist (single) - BIO01 - v2.0. It is possible to provide the specific function of the component between a predefined list of values: • "Perfume" • "Fragrance" • "Colourant" If a mixture component is a 'Generic product identifiers', the substance dataset (or the MiM dataset) is not needed and must not be linked.

Concentration range	**FLEXIBLE_SUMMARY.ProductSummaryComposition.ProductSummaryComposition.Composition.Concentration** Mandatory - Numeric range (decimal) with picklist (single) N24 v1.0. This field allows encoding the component concentration either as exact or range percentages. Concentrations can be expressed using the following mandatory Picklist (single) values: • "% (w/w)"; or • "% (v/v)" The selected picklist (single) value must be consistent for all the components provided in the mixture composition. When encoding concentration ranges it is also possible to specify the upper and lower limits percentages for each of the component using the following qualifiers: • ">" or ">=" for the lower numeric value; and • "<" or "<=" for the upper numeric value

Name **FLEXIBLE_SUMMARY.ProductSummaryComposition.ProductSummaryComposition.Composition.Name**

Mandatory if the component is not identified with a Generic product identifier (See Function field).

Entity reference field.

- Link (single) to Substance dataset (*SUBSTANCE); or*
- Link (single) to MiM dataset (*MIXTURE)*

This field allows to specify and assign either a substance or a mixture in mixture (dataset) for fully identifying the mixture component under consideration. This is done by creating a single link with the desired dataset created previously.

For additional information on how to provide the information for each Mixture component see Sections: Encoding the Substance (information) dataset and

Encoding the Mixture in Mixture (MiM) dataset.

Composition – End of Repeatable block

4.7 Physical state, colour, intensity and form

This document must always be provided as part of the additional Mixture information in a dossier. It also possible to reference this document from one or more products in the dossier. For additional information see section Product information.

ENPOINT_SUMMARY.GeneralInformation – Field definitions

Field	Description
Physical state at 20°C and 1013 hPa	**ENDPOINT_SUMMARY.GeneralInformation.KeyValueForChemicalSafetyAssessment.PhysicalState** Mandatory – Picklist (single) A19 - v1.0. This field represents the Mixture physical state and must always be provided.
Form	**ENDPOINT_SUMMARY.GeneralInformation.KeyValueForChemicalSafetyAssessment.Form** Optional – Picklist (single) A101 – v3.0. This field represents the Mixture form. As this field is optional, it is suggested in case the field is not applicable or relevant to encode the identifier ”2207” corresponding to the value “not specified”.
Colour	**ENDPOINT_SUMMARY.GeneralInformation.KeyValueForChemicalSafetyAssessment.Colour** Mandatory – Picklist (multi-select list) PG6-60569 - v1.0. This field represents the colour of the Mixture and must always be provided.
Colour intensity	**ENDPOINT_SUMMARY.GeneralInformation.KeyValueForChemicalSafetyAssessment.ColourIntensity** Optional – Picklist (single) PG6-60568 - v1.0. This field represents the colour intensity of the Mixture.

4.8 Product information

This document must always be provided and represents the product information related with a single Mixture (Standard submission) or a group of Mixtures (Group submission). At least one document must be present in the final dossier, however it is possible to provide multiple product information documents depending on the business needs e.g. multiple products to be associated to the Mixture. All the mandatory fields must be provided as depicted in the field definitions table below.

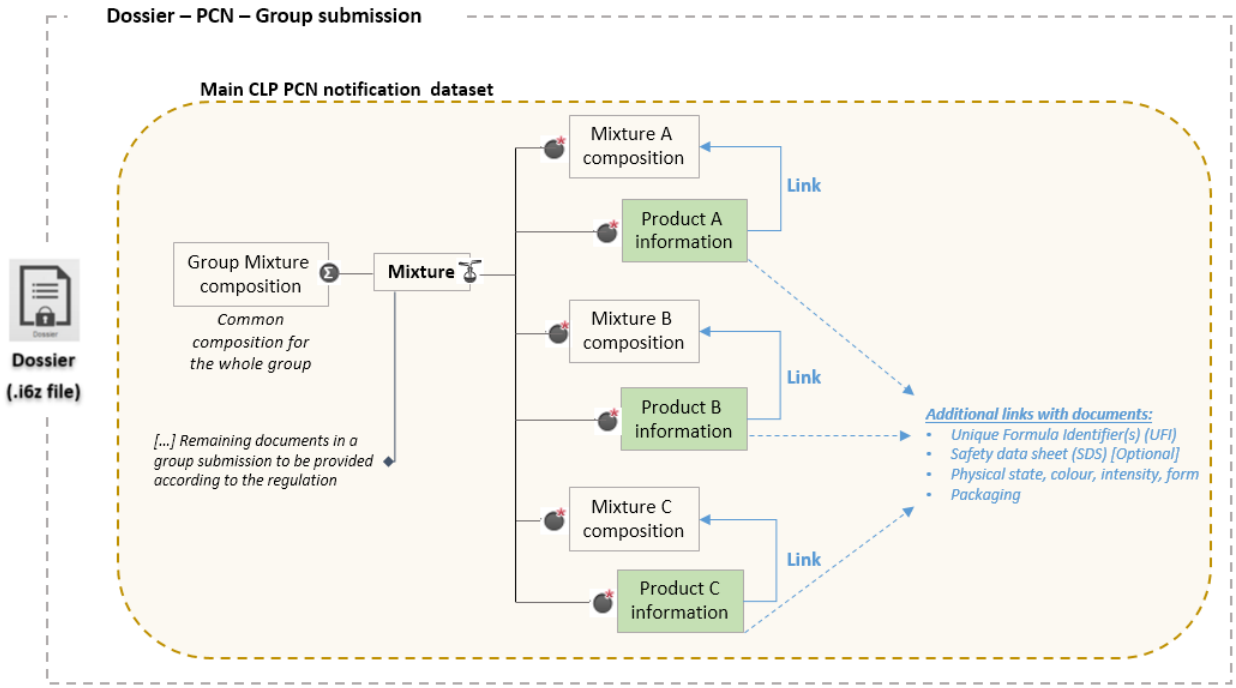
Standard submission

In a standard submission there's no need to establish a link between the product information and the mixture composition since only one mixture composition document must be provided.

Group submission

In a group submission a link must be established between the product information and the related mixture compositions representing the various mixtures of the group. Each product information document may be associated to each mixture of the group, however it is also possible to link and associate all the mixtures of the group to one single product information document depending on the needs.

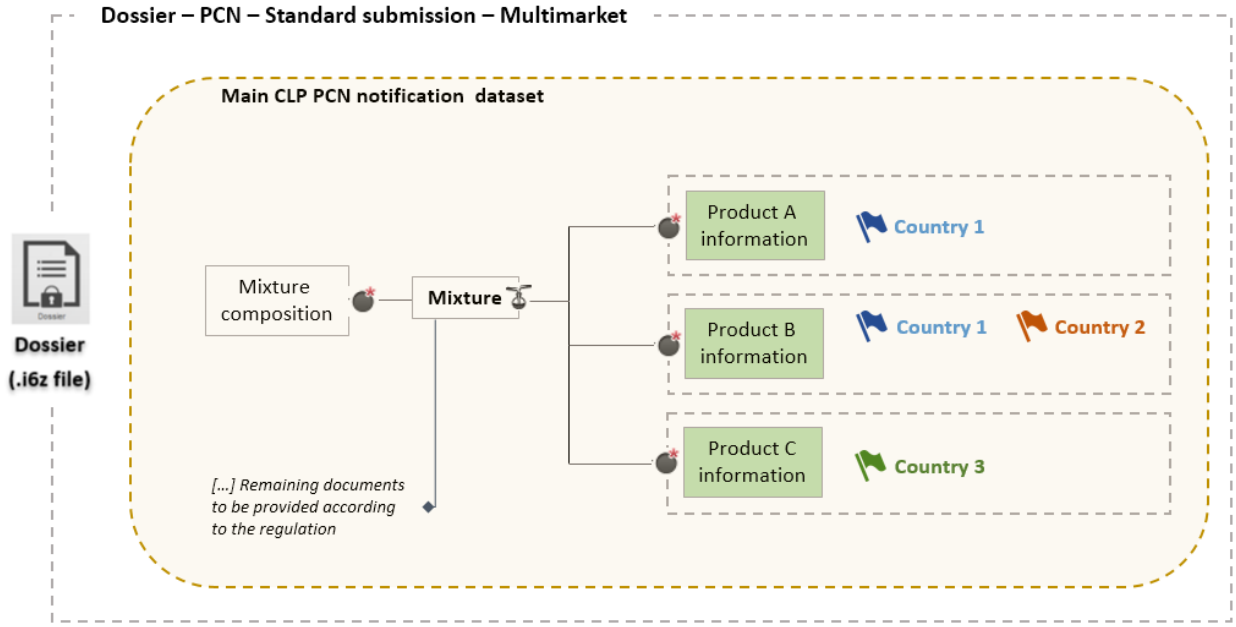
Figure 7: Group submission – Product links with Mixture compositions



Multimarket notification

A multimarket notification can be encoded by providing the <*Country*> field in the product information document. As depicted in the diagram below either a single or multiple countries can be provided per product. At least one country must be provided for each product information document.

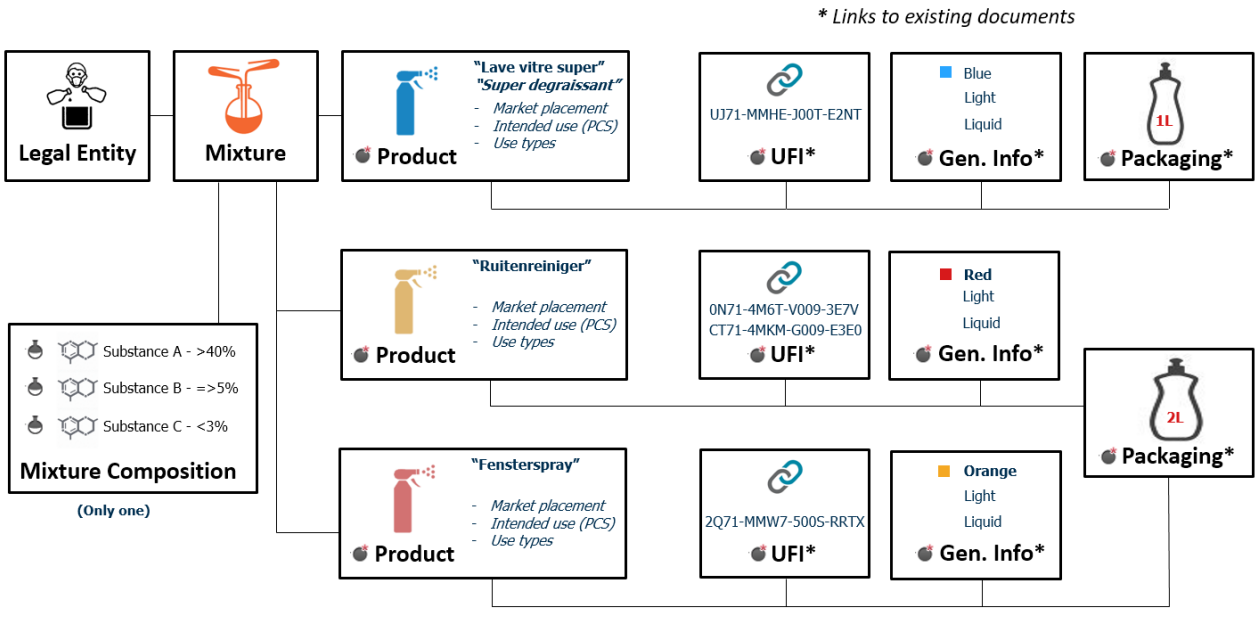
Figure 8: Multimarket notification - Product information



The *Product information* document allows a very flexible configuration of the links between the products and the related documents.

The example shown in the diagram below illustrate a standard submission containing 3 different products linked with existing documents in the dossier. Two *Product information* documents may also be linked to the same *Packaging* document. The same approach is valid for all the links contained in the document. For example depending on the business needs it is also possible to link two or more products to the same *Mixture Unique Formula Identifiers (UFI)* document.

Figure 9: Multiple products – Standard submission Example



FLEXIBLE_RECORD.ProductInfo – Field definitions

Field	Description
For a group submission, specify to which mixture it applies:	**FLEXIBLE_RECORD.ProductInfo.GroupSubmission.MixtureLink** Mandatory in case of Group submission Link to Mixture composition *(FLEXIBLE_ RECORD.MixtureComposition)* Single or multiple links to Mixture composition. In a group submission, it is possible to link this document to one or more mixture compositions in the group. *Applicable only in case of Group submission
Product identifiers	Repeatable blocks – (Each individual field can be provided multiple times)
Trade name	**FLEXIBLE_RECORD.ProductInfo.ProductIdentifiers.TradeNames.TradeName** Mandatory - Text (2,000 char.) Multiple trade names can be provided.
Other name	**FLEXIBLE_RECORD.ProductInfo.ProductIdentifiers.OtherNames.OtherName** Optional - Text (2,000 char.) Additional brand names or synonyms can be provided.
Unique Formula Identifier (UFI) and other identifiers	**FLEXIBLE_RECORD.ProductInfo.ProductIdentifiers.UFI** Mandatory Link to Mixture unique formula identifiers (UFI) document (*FLEXIBLE_RECORD.Identifiers)* Single or multiple links to Mixture unique formula identifiers (UFI) can be provided.
Market placement **Country**	**FLEXIBLE_RECORD.ProductInfo.MarketPlacement.Country** Mandatory - List multi. (multi-select list) - EU-EEA - v2.0. This field represents the country where the mixture will be placed.

Link to safety data sheet (SDS)	**FLEXIBLE_RECORD.ProductInfo.SafetyDataSheet.LinkToSDS** Optional Link to Mixture Safety data sheet document (FLEXIBLE_RECORD.SDSInfoMixture) Single or multiple links to the SDS document containing the Safety data sheet can optionally be provided.
Link to the information about colour and physical state	**FLEXIBLE_RECORD.ProductInfo.AdditionalInformation.ColourAndPhysicalState.LinkToColourAndPhysicalState** Mandatory Link to Physical state, colour, intensity and form *document (FLEXIBLE_RECORD.GeneralInformation)* Single or multiple links to Physical state, colour, intensity and form.
Link to the packaging information	**FLEXIBLE_RECORD.ProductInfo.AdditionalInformation.Packaging.LinkToPackaging** Mandatory Link to Packaging *(FLEXIBLE_RECORD.Packaging)* Single or multiple links to Packaging document can be provided. One product can use several types of packaging, therefore the same product can be linked to several packaging documents.
Main intended use	**FLEXIBLE_RECORD.ProductInfo.AdditionalInformation.ProductUseCategory.MainIntendedUse** Mandatory - List (picklist) - EuPCS This field must contain one single identifier corresponding to one product category according to the EuPCS. The European product categorisation system (EuPCS) is used to describe 'the intended use of a mixture'. The EuPCS for mixtures in the scope of Article 45 is maintained by ECHA and subject to change – version 1.0 is currently available (in English) at the following web page: EuPCS (v.1.0.) for mixtures within the scope of Article 45 of CLP Regulation.
Secondary uses	**FLEXIBLE_RECORD.ProductInfo.AdditionalInformation.ProductUseCategory.SecondaryUses** Optional - List multi. (multi-select list) EuPCS The field is not used in the current version of the PCN Format.

Use type	**FLEXIBLE_RECORD.ProductInfo.AdditionalInformation.ProductUseCategory.UseType** Mandatory - List multi. (multi-select list with remarks - 2,000 char.) - PG6-60565 - v1.0. This field must contain one or more identifiers from a pre-defined list of values: • 64873 - "Consumer" • 58391 - "Professional" • 3862 - "Industrial"

4.9 pH

This document represents the Mixture ph. The document must always be provided even when the pH is not relevant.

ENPOINT_SUMMARY.pH

Field	Description
pH is not relevant	**ENDPOINT_SUMMARY.pH.KeyValueForChemicalSafetyAssessment.pHNotRelevant** Mandatory – Check box (True/False) When the Mixture pH is not relevant, the field must be set to <*true*>.
pH value	**ENDPOINT_SUMMARY.pH.KeyValueForChemicalSafetyAssessment.pH** Mandatory – Numeric range (decimal) The field is mandatory when field pH is not relevant is set to <*false*>. The pH value can be expressed using an exact value or range numeric values. When encoding the pH value it is also possible to specify the upper and lower limits using the following qualifiers: • ">" or ">=" for the lower numeric value; and • "<" or "<=" for the upper numeric value

4.10 Mixture Classification & Labelling

The information that must be provided for the classification and labelling of the mixture contains the following elements (in accordance with Annex VIII and the CLP regulation criteria):

- Hazard classes, categories and statements (Health and Physical hazards)
- Hazard pictogram codes (Annex V)
- Signal word
- Supplemental hazard information codes (Annex III)

- Precautionary statement codes (Annex IV)

This document is always needed even in case the Mixture is non-hazardous or not classified according to CLP criteria. In this cases the field <*Not classified*> of the document must be set to <true> and the remaining fields must not be provided.

FLEXIBLE_RECORD.Ghs – Field definitions

Field	Description
Not classified	**FLEXIBLE_RECORD.Ghs.GeneralInformation.NotClassified** Mandatory – Check box (True/False) When the Mixture classification and labelling is regarded as not classified the field must be set to <true>.
Related composition	**FLEXIBLE_RECORD.Ghs.GeneralInformation.RelatedCompositions.Composition** Optional in case of Group submission Link to Mixture composition *(FLEXIBLE_ RECORD.MixtureComposition)* Single or multiple links to Mixture composition document. In a group submission multiple mixture compositions are provided. It is possible to link this document to one or more mixture compositions in the group. This may be needed in case of differences between the classification of the mixtures of the group. *Applicable only in case of Group submission
Classification – Physical and Health Hazards – Start of repeatable blocks See Appendix 7 – Physical Hazards / Health Hazards	
Hazard category /class	Mandatory – Picklist (single) This field must contain the correct and relevant hazard class from a predefined list of existing values (according to the CLP regulation criteria). If at least one 'Hazard category' and/or 'Hazard statement' is encoded, then the check box <*Not classified*> should be set to <false>.
Hazard statements	Mandatory – Picklist (single) This field must contain the correct and relevant hazard statements from a predefined list of existing values (according to the CLP regulation criteria).
Classification – Physical and Health Hazards – End of repeatable blocks	

Labelling – Start of repeatable blocks

Signal word	**FLEXIBLE_RECORD.Ghs.Labelling.SignalWord** Mandatory – Picklist (single) - GHS29 - v1.0 This single field represents the signal word used to indicate the relative level of severity of hazard and alert of a potential hazard on the product's label. The signal words used in this picklist are 'Danger' and 'Warning.' whereby 'Danger' is used for the more severe hazards, and 'Warning' is used for the less severe. If no signal word is present the field must contain the corresponding identifier for 'No signal word'.
Hazard pictograms **Code**	**FLEXIBLE_RECORD.Ghs.Labelling.HazardPictogramBlock.HazardPictogram.Code** Picklist (single) - DM02 - v1.0 This section represents a repeatable block namely *<Hazard pictograms>* containing one single field *<code>*. The hazard pictograms are a graphical composition, intended to convey specific information on the hazard concerned on the product's label. It should be provided depending on the hazard classes and categories. Each field *<code>* should contain a valid identifier from the list of available values (whenever applicable) that represents a single hazard pictogram. It is possible to provide up to 9 different GHS codes according to the CLP regulation (Annex V – Hazard pictograms).

Hazard statements	**FLEXIBLE_RECORD.Ghs.Labelling.HazardStatementsBlock.HazardStatements.HazardStatement** **FLEXIBLE_RECORD.Ghs.Labelling.HazardStatementsBlock.HazardStatements.AdditionalText** This mandatory section represents a repeatable block namely *<Hazard statements>* containing two fields: • *<Hazard statements>* *Picklist (single)* - GHS65 - v3.0 • *<Additional text>* *Text* This section must contain all the correct and relevant (labelling) hazard statements from a predefined list of existing values (according to the CLP regulation criteria). ⚠ The field *<Additional text>* must only be used whenever the hazard statement contains editable parts that must explicitly stated. In this case the text of the field must contain the full hazard statements including the missing parts (e.g. route of exposure, organs etc..). Consider the following example: *<Hazard statements>* "H371: May cause damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>." *<Additional text>* "H371: May cause damage to organs (Nervous system)."

Precautionary statements

FLEXIBLE_RECORD.Ghs.Labelling.PrecautionaryStatementsBlock.PrecautionaryStatements.PrecautionaryStatement

FLEXIBLE_RECORD.Ghs.Labelling.PrecautionaryStatementsBlock.PrecautionaryStatements.AdditionalText

This mandatory section represents a repeatable block namely <Precautionary statements> containing two fields:

- <*Precautionary statement*> Picklist (single) - GHS66 - v2.1
- <Additional text> Text

This section must contain all the correct and relevant (labelling) precautionary statements from a predefined list of existing values (according to the CLP regulation criteria).

⚠ The field *<Additional text>* must only be used whenever the precautionary statement contains editable parts that must explicitly stated. In this case the text of the field must contain the full statement including the missing parts (e.g. route of exposure, organs etc..).

Consider the following example:

<Precautionary statement> "P264: Wash ... thoroughly after handling."

<Additional text>" P264. Wash hands thoroughly after handling. "

Additional non-GHS hazard statements

FLEXIBLE_RECORD.Ghs.Labelling.LabelingRequirementsBlock.LabelingRequirements.SupplHazardStatement

FLEXIBLE_RECORD.Ghs.Labelling.LabelingRequirementsBlock.LabelingRequirements.AdditionalText

This section refers to the supplemental hazard information namely EUH-Statements (CLP Regulation – Annex III – Part 2 – Table 2.1).

This mandatory section represents a repeatable block namely <Additional non GHS hazards statements> containing two fields:

- <*Additional non-GHS statement*> Picklist (single) - EUGHS1 - v2.0
- <Additional text> Text

This section must contain all the correct and relevant (labelling) supplementary statements from a predefined list of existing values (according to the Annex III part 2 of the CLP regulation).

⚠ The field *<Additional text>* must only be used whenever the statement contains editable parts that must explicitly stated. In this case the text of the field must contain the full statement including the missing parts (e.g. route of exposure, organs etc..).

Labelling – End of repeatable blocks

4.11 Packaging

This document must be encoded in order to provide information about the product packaging. Multiple documents can be encoded depending on the packaging type and size. The documents can then be linked from the product information document depending on the business needs. For additional information see Product information.

FLEXIBLE_RECORD.Packaging – Field definitions

Field	Description
Type of packaging in contact with the product (container type)	**FLEXIBLE_RECORD.Packaging.Packaging.TypeOfPackaging** Mandatory – Picklist (single) - B05 - v2.0 This field is used to indicate the material of container that is in contact with a product.
Size of packaging in contact with the product (container size)	**FLEXIBLE_RECORD.Packaging.Packaging.SizeOfPackaging** Mandatory – Numeric range (decimal with picklist) Picklist (single) - B06 - v2.0 This field is used to indicate the size of the container that is in contact with a product. In case the product is sold in different sizes under the same product identifiers (e.g. product name and UFI) the minimum and maximum sizes can also be indicated. The upper and lower limits can be encoded using the following qualifiers: • “>” or ”>=” for the lower numeric value; and • ”<” or ”<=” for the upper numeric value

4.12 Mixture Safety data sheet and Toxicological information

This document is mandatory as it is required in order to provide the Mixture toxicological information although the SDS section is optional and not required by the regulation.

FLEXIBLE_RECORD.SDSInfoMixture – Field definitions

Field	Description
Name or trade name of mixture / product	**FLEXIBLE_RECORD.SDSInfoMixtures.InformationOnMixtures.MixtureProductName** Optional – Text (2,000 char.) This field is not required from a regulatory perspective and it is also not mandatory, however, it can be used internally and for reference purposes in order to easily identify the SDS provided.

Safety data sheets of mixture / product – Start of repeatable block	
Safety data sheet	**FLEXIBLE_RECORD.SDSInfoMixtures.InformationOnMixtures.TradeNamesAndSafetyDataSheetsOfTheMixture.TradeNamesAndSafetyDataSheets.Attachment** Optional – Attachment (single) Note: Attaching the SDS does not release the duty holder from provision of information in the required format, even if that information is contained in the SDS. In case of discrepancy between the information in SDS and information inserted in the PCN dossier, the latter is deemed as relevant.
Country	**FLEXIBLE_RECORD.SDSInfoMixtures.InformationOnMixtures.TradeNamesAndSafetyDataSheetsOfTheMixture.TradeNamesAndSafetyDataSheets.Country** Optional – Picklist (single) - EU-EEA - v2.0 This field represent the country where the SDS is applicable.
Language	**FLEXIBLE_RECORD.SDSInfoMixtures.InformationOnMixtures.TradeNamesAndSafetyDataSheetsOfTheMixture.TradeNamesAndSafetyDataSheets.Language** Optional – Picklist (single) - PG6-60564 - v1.0 This field represents the language used in the SDS.
Remarks	**FLEXIBLE_RECORD.SDSInfoMixtures.InformationOnMixtures.TradeNamesAndSafetyDataSheetsOfTheMixture.TradeNamesAndSafetyDataSheets.Remarks** Optional – Text (2,000 char.)
Safety data sheets of mixture / product – End of repeatable block	
Toxicological information (section 11 of SDS)	**FLEXIBLE_RECORD.SDSInfoMixtures.InformationOnMixtures.TradeNamesAndSafetyDataSheetsOfTheMixture.SDSsection11** Mandatory – Rich text area This field can contain formatted text with special formatting such as font size, font colour, bold, italic, tables, etc. When copying text from SDS Section 11 the formatted text keeps its settings from where it is copied. Note: In case of 'copying' pay attention that the text does not cross-references to other SDS sections or documents. The text must be stand alone.

5. Encoding the Substance (information) dataset

Both the EC Inventory and the existing (well-known) Reference substance inventory are managed by ECHA and contains catalogues that can be re-used and downloaded free of charge from IUCLID public web site: https://iuclid6.echa.europa.eu/web/iuclid/iuclid-inventories

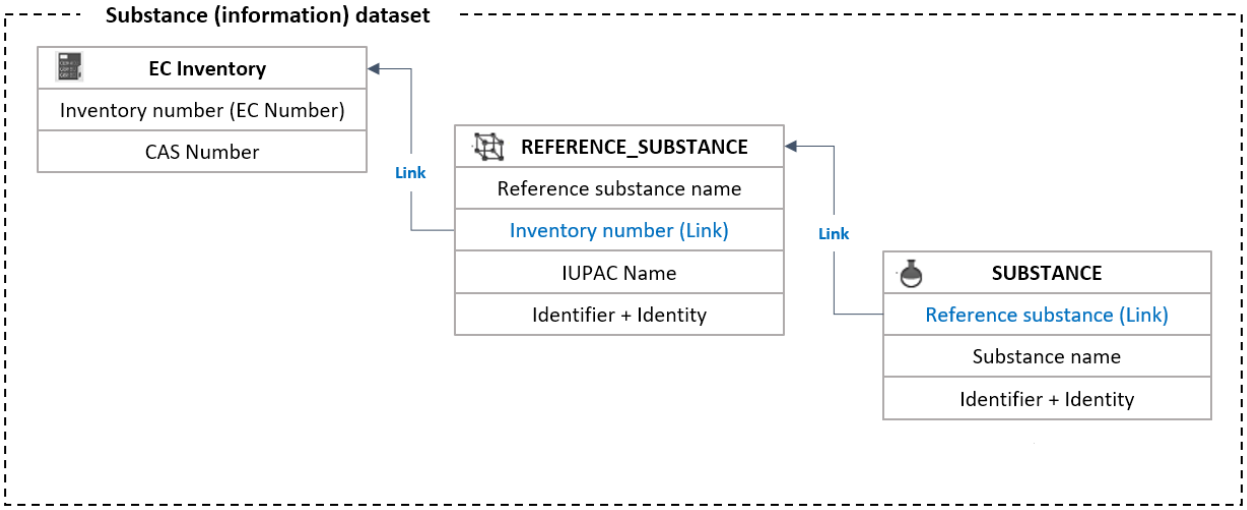
The chemical identity of all the substances listed as Mixture components should be carefully prepared and completely compiled with all the known data to the possible extent.

There are three important parts and documents (highlighted in brackets) related to the identification of a Substance in the PCN format:

- The Substance identity (*SUBSTANCE* entity);
- The Reference substance (*REFERENCE_SUBSTANCE* document);
- The EC Inventory (*EC Inventory*)

The aforesaid documents should be linked in cascade manner as highlighted in the diagram in Figure 7 here below.

Figure 10: Substance identity documents relationships



All the known substance identifiers should be provided as described in section 3.2.1 Mixture components – Substance of Annex VIII to the CLP regulation and in accordance with CLP regulation Art. 18(2).

The following simplified stepwise approach can be used in order to encode the substance identifiers information (corresponding documents in brackets):

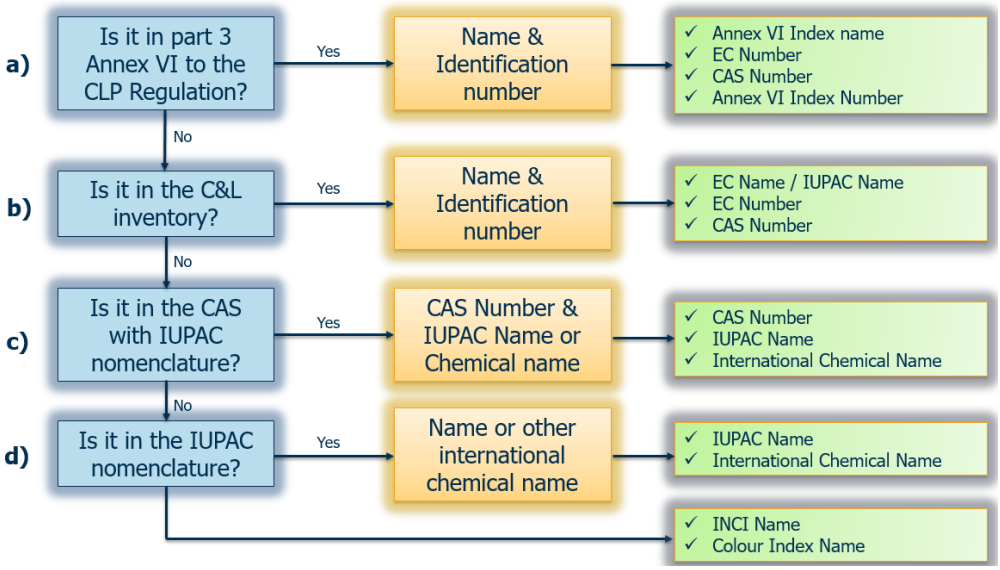
Steps	Identification process	Substance identifiers
a)	if the substance is included in Part 3 of Annex VI, a name and an identification number as given therein can be used	Annex VI Index name – *<Substance name>* (SUBSTANCE)
		EC Number – *<Inventory number> (EC Inventory)*
		CAS Number – *<CAS number> (EC Inventory)*
		Annex VI Index Number [Other substance identifiers – Rep. block] *<Identifier: CLP index number - harmonised C&L>* *<Identity>* (SUBSTANCE)

b)	if the substance is not included in Part 3 of Annex VI, but appears in the classification and labelling inventory, a name and an identification number as given therein;	EC Name – *<Substance name>* (SUBSTANCE)
		IUPAC Name – *<IUPAC name>* (REFERENCE_SUBSTANCE)
		EC Number – *<Inventory number> (EC Inventory)*
		CAS Number – *<CAS number> (EC Inventory)*
c)	if the substance is not included in Part 3 of Annex VI nor in the classification and labelling inventory, the number provided by the CAS (hereinafter referred to as 'the CAS number'), together with the name set out in the nomenclature provided by the IUPAC (hereinafter referred to as 'the IUPAC Nomenclature'), or the CAS number together with another international chemical name(s);	CAS Number *<CAS number>* *(EC Inventory)*
		IUPAC Name *<IUPAC name>* (REFERENCE_SUBSTANCE)
		International Chemical Name *<Substance name>* (SUBSTANCE)
d)	if the CAS number is not available, the name set out in the IUPAC Nomenclature or another international chemical name(s).	IUPAC Name *<IUPAC name>* (REFERENCE_SUBSTANCE)
		International Chemical Name *<Substance name>* (SUBSTANCE)
		Other/additional international chemical names *(REFERENCE_SUBSTANCE)*
e)	Eventually an INCI name, a colour index name or another international chemical name may also be used, provided the chemical name is well-known and unambiguously defines the substance identity.	INCI Name [Other substance identifiers – Rep. block] *<Identifier:INCI name> <Identity>* (SUBSTANCE)
		Colour Index Name [Other substance identifiers – Rep. block] *<Identifier:Colour index> <Identity>* (SUBSTANCE)

Substances must always be identified by linking a reference substance and whenever applicable an EC Inventory entry should also be linked to the reference substance document.

However, in some cases an EC inventory entry may not be available from the existing chemical inventory. In this case, the known identifiers should be encoded in the corresponding fields of the substance and reference substance linked to it.

Figure 11: Stepwise decision flow for substance identifiers



5.1 Substance identification

SUBSTANCE – Field definitions

Field	Description
Substance name	**SUBSTANCE.ChemicalName** Mandatory – Text (2,000 char) This field is mandatory, and can contain one the following substance identifiers: • Annex VI Index name • EC Name • International Chemical Name
Other substance identifiers – Start of repeatable block	
Identifier	**SUBSTANCE.OtherNames.NameType** Optional – Picklist (single) - N97 - v2.0 The type of identifier can be selected among a list of pre-defined values. This field should be provided only when applicable, and can contain one of the following identifiers: • CLP index number - harmonised C&L – (Value 55444) • INCI name (Value 60822) • Colour index (Value 2757)

Identity	**SUBSTANCE.OtherNames.Name** Optional - Text (2,000 char.) This field contains the identity (name, number, code) corresponding to the *<Identifier>* type selected.

Other substance identifiers – End of repeatable block

Reference substance	**SUBSTANCE.ReferenceSubstance.ReferenceSubstance** Mandatory – Link (single) • Link to Reference substance *(REFERENCE_SUBSTANCE)* This field must always contain a link with an existing reference substance.

5.2 Reference substance (REFERENCE_SUBSTANCE)

A Reference substance can be seen as an entity in the PCN format that is used to define the identity of a Substance, in such a way that the definition may be re-used in more than one dossier if needed. This provides consistency and avoids duplication of work. A Reference substance contains both chemical identifiers and structural information.

Reference substances can be encoded or created as new documents, however, it is also possible and more efficient to re-use and import them in the PCN format as a ready-made set from the public collection available free of charge from the IUCLID public web site[6].

It may be that the reference substance has not yet been entered in the aforesaid inventory. In this case, a new reference substance can be encoded and linked to an existing entry in the EC Inventory.

⚠ The reference substance document must always be present in a dossier. As a minimum the <Reference substance name> (EC Name, chemical name etc..) along with one of the following fields must be provided:

- EC number;
- CAS number and CAS name;
- IUPAC name

[6] Thousands of existing and well-known reference substances are publicly available. The set is provided as an archive file with extension zip. Its content must be extracted before the .i6z files can be used and imported but it is also possible to search and download only the one needed here: https://iuclid6.echa.europa.eu/web/iuclid/iuclid-inventories.

REFERENCE_SUBSTANCE – Field definitions

Field	Description
Reference substance name	**REFERENCE_SUBSTANCE.GeneralInfo.ReferenceSubstanceName** Mandatory - Text (2,000 char.) This field must always be provided and should be aligned with the main chemical identifier provided for the substance identity (e.g. EC name, International chemical name, CAS name, IUPAC name etc...).
Inventory number	**REFERENCE_SUBSTANCE.Inventory.InventoryEntry** One single mandatory link if an entry exists in the Chemical inventory. Link to *EC Inventory* entry (EC Inventory) When an inventory entry is not present, the correct substance identifiers must be provided in the reference substance document.
IUPAC name	**REFERENCE_SUBSTANCE.ReferenceSubstanceInfo.IupacName** Optional – Multiline text – To be provided when applicable and available as substance identifier. This field contains the substance IUPAC name.
Synonyms – Start of repeatable block	
Identifier	**REFERENCE_SUBSTANCE.ReferenceSubstanceInfo.Synonyms.Identifier** Optional – Picklist (single) - PG6-60192 - v1.1 The picklist contains additional identifiers, that should be used only when an EC inventory entry is not available to be linked from the chemical inventory. In this case EC number / EC name or other international chemical identifiers can also be provided. If none of the pre-defined items applies, the 'other:' option can also be provided along a text field where it is possible to specify the type of identifier.
Identity	**REFERENCE_SUBSTANCE.ReferenceSubstanceInfo.Synonyms.Name** Optional - Text (2,000 char.) This field contains the identity (name, number, code) corresponding to the *<Identifier>* type selected.

Synonyms – End of repeatable block

CAS Number	**REFERENCE_SUBSTANCE.ReferenceSubstanceInfo.CASInfo.CASNumber** Optional - Text (255 char.) When an EC inventory entry with the specific CAS number is not available to be linked from the chemical inventory, this field can be used to encode the CAS Number.
CAS Name	**REFERENCE_SUBSTANCE.ReferenceSubstanceInfo.CASInfo.CASName** Optional – Multiline text - This field contains the optional CAS Name if applicable and available.

5.3 EC Inventory

The *EC Inventory* is a public catalogue[7] (received from the JRC in 2008 on the founding of ECHA) listing substance identities and chemicals identifiers based on a combination of following EU inventories:

- **EINECS**: European Inventory of Existing Commercial Chemical Substances, which includes substances that were on the European market between 1st January 1971 and 18th September 1981. The EINECS is based on the European COre INventory (ECOIN) to which supplementary substance reporting could be made by industry (according criteria for reporting substances for EINECS). ECOIN was composed by blending different lists of chemicals presumed to be on the European market (e.g. the TSCA list (The Toxic Substances Control Act)).

- **ELINCS**: European List of New Chemical Substances, which includes substances notified and placed on the market after 18th September 1981.

- **NLP-list**: No-Longer Polymers list, which includes substances that have been on the EU market between 18th September 1981, and 31st October 1993 and satisfy the requirement that they were considered to be polymers under the reporting rules for EINECS but are no longer considered to be polymers under the 7th amendment of Directive 67/548/EEC (Directive 92/32/EEC). The NLP-list is a non exhaustive list.

When a chemical identifier is available in the EC inventory a link can be established from a Reference substance to an inventory entry. This provides the Reference substance with the correct information on chemical identity in a re-usable way, and in the correct PCN standard format.

The information contained in each inventory entry (i.e. EC number, CAS number, EC name, molecular formula, description) should be considered as reference and read-only data. Each document linked must be used as-is without any further modification or amendment. Whenever and entry is not present in the EC inventory or the data contained in an entry is not suitable or aligned with what should be reported, it is advisable to use the *Reference substance* document in order to provide the correct substance identity.

[7] The EC inventory is also published by ECHA here: https://echa.europa.eu/information-on-chemicals/ec-inventory and can be can be downloaded free of charge from IUCLID public web site: https://iuclid6.echa.europa.eu/web/iuclid/iuclid-inventories.

EC INVENTORY – Field definitions

Field	Description (Read-only – Inventory)
Inventory number	**CHEMICAL_INVENTORY.GeneralInformation.InventoryNumber** The European Community number (EC Number), a unique seven-digit identifier assigned to substances for regulatory purposes. The general form of the EC Number may be written as: NNN-NNN-R. R is a check digit and N represents integers. The check digit is calculated using the ISBN method (Sum modulo 11).
Inventory name	**CHEMICAL_INVENTORY.GeneralInformation.InventoryName** Substance name (e.g. EC Name)
CAS number	**CHEMICAL_INVENTORY.GeneralInformation.CASNumber** The CAS Registry Number, also referred to as CASRN or CAS Number, is a unique numerical identifier assigned by the Chemical Abstracts Service (CAS) to every chemical substance described in the open scientific literature. A CAS number is separated by hyphens into three parts, the first consisting from two up to seven digits, the second consisting of two digits, and the third consisting of a single digit serving as a check digit (Sum modulo 10).
Molecular formula	**CHEMICAL_INVENTORY.GeneralInformation.MolecularFormula** Molecular formula

Although the EC chemical inventory contains several (read-only) fields, the final relevant information requested in the PCN format from the EC Inventory concerns only EC and CAS numbers. The additional information contained in this document should not be amended or deleted.

5.4 Substance classification

The classification of each mixture component for Health and Physical hazards including hazard classes, hazard categories and hazard statements should be provided.

This document is always needed even in case the substance is non-hazardous or not classified according to CLP criteria. In this cases the field <Not classified> of the document must be set to <true> and the remaining fields must not be provided.

For each Physical Hazards or Health Hazards repeatable block several pre-defined categories are available for selection (according to CLP regulation criteria).

FLEXIBLE_RECORD.Ghs – Field definitions

Field	Description
Not classified	**FLEXIBLE_RECORD.Ghs.GeneralInformation.NotClassified** Mandatory – Check box (True/False)
Classification – Physical and Health Hazards – Start of repeatable blocks See Appendix 7 – Physical Hazards / Health Hazards	
Hazard category/class	Mandatory – Picklist (single) This field must contain the correct and relevant hazard class from a predefined list of existing values (according to CLP regulation criteria).
Hazard statements	Mandatory – Picklist (single) This field must contain the correct and relevant hazard statements from a predefined list of existing values (according to the CLP regulation criteria).
Classification – Physical and Health Hazards – End of repeatable blocks	

6. Encoding the Mixture in Mixture (MiM) dataset

When a mixture is used in the composition of a second mixture, the first mixture is referred to as a mixture in mixture (or MIM). For additional information see also Figure 1 in section Datasets table of content (TOC) and Dossier.

⚠ Important note: when the Legal submitter has access to information on the full composition of the MIM, all the MiM components must be linked (as individual datasets) along with the other main Mixture components in the *Mixture composition* document. In this case a MiM dataset **must not be used and linked** to the main CLP PCN notification dataset.

Mixture in Mixture (MiM) - Known components

When the Legal submitter does not have access to information on the full composition of the MIM the information on known mixture components and concentrations must be provided in the MiM dataset along with the UFI of the MiM. For additional information on what documents must be provided see Section Mixture in Mixture information (Known components).

The relationship between the various documents in a MiM dataset is also illustrated in Appendix 3 - Mixture in Mixture (MiM) - Known components.

Mixture in Mixture information - Limited dataset

When the Legal submitter does not have access to information on the full composition of the MIM and in absence of a UFI, the Safety Data Sheet of the MIM must be provided, as well as the contact details of the MIM supplier. For additional information on what documents must be provided see Section Mixture in Mixture information (Limited dataset).

The relationship between the various document in a MiM dataset is also illustrated in Appendix 4 - Mixture in Mixture (MiM) – Limited dataset.

6.1 MiM Identification

MIXTURE - Field definitions

Field	Description
Mixture/Product name	**MIXTURE.MixtureName** Mandatory - Text (2,000 char.) According to the regulation[8] the product identifier for a MiM (mixture in mixture) shall include the trade name or the designation of the mixture that can be encoded in this field.
Other names – Start of Repeatable block	
Name	**MIXTURE.OtherNames.Name** Optional - Text (2,000 char.) In case of multiple MiM trade names or synonyms the PCN format allows the use of this field to provide additional MiM designations.
Other names – End of Repeatable block	

6.2 MiM Unique Formula Identifiers (UFI)

The MiM unique formula identifier can be provided whenever applicable and provided by the MiM supplier. For additional information see also the previous section

[8] See CLP Regulation – Annex VIII Section 3.2.2. Mixture in Mixture

Encoding the Mixture in Mixture (MiM) dataset.

Only a single document can be provided for each MiM dataset.

FLEXIBLE_RECORD.Identifiers - Field definitions

Field	Description
Regulatory programme identifiers – Start of Repeatable block	
Regulatory programme	**FLEXIBLE_RECORD.Identifiers.RegulatoryProgrammeIdentifiers.RegulatoryProgrammeIdentifiers.RegulatoryProgramme** Mandatory – Picklist (single value)* - Mandatory field value: 64856 This picklist allows the selection of many other pre-defined identifiers type for IUCLID compatibility reasons, however, the only mandatory value that must be used is 64856 corresponding to "CLP unique formula identifier (UFI)".
ID	**FLEXIBLE_RECORD.Identifiers.RegulatoryProgrammeIdentifiers.RegulatoryProgrammeIdentifiers.Id** Mandatory - Text (255 char.) – MiM UFI 16-character alphanumeric code This field allows encoding a single MiM Unique Formula Identifier. If additional MiM UFI(s) are needed to identify the Mixture in Mixture, another repeatable block can be added to the document.
Remarks	**FLEXIBLE_RECORD.Identifiers.RegulatoryProgrammeIdentifiers.RegulatoryProgrammeIdentifiers.Remarks** Optional – Text area This optional field can be used for internal purposes and allows encoding remarks related to a single Unique Formula Identifier.

Regulatory programme identifiers – End of Repeatable block

6.3 MiM composition

Only a single MiM Composition document can exist in a MiM dataset.

FLEXIBLE_RECORD.MixtureComposition – Field definitions

Field	Description
Mixture/product name	**FLEXIBLE_RECORD.MixtureComposition.GeneralInformation.Name** Optional - Text (255 char.) This field is not required from a regulatory perspective and it is also not mandatory, however, it can be used internally and for reference purposes in order to easily identify the MiM composition.
Components – Start of Repeatable block	

Name **FLEXIBLE_RECORD.MixtureComposition.Components.Components.Reference**

Mandatory if the component is not identified with a Generic product identifier (See Function field).

- Link (single) to Substance dataset (*SUBSTANCE); or*
- Link (single) to MiM dataset (*MIXTURE)*

⚠ The PCN format allows nesting multiple MiM datasets if needed.

This field allows linking either a substance or a mixture in mixture (dataset) for fully identifying the mixture component under consideration. This is done by creating a single link with the desired dataset created previously.

For additional information on how to provide the information for each MiM component see Sections: Encoding the Substance (information) dataset and

Encoding the Mixture in Mixture (MiM) dataset.

Function	**FLEXIBLE_RECORD.MixtureComposition.Components.Components.Function** Mandatory only in case of a generic component identified as with a generic product identifier. Picklist (single) - N28A - v2.0. It is possible to provide the specific function of the component between a predefined list of values: • "Perfume" • "Fragrance" • "Colourant" If a mixture component is a 'Generic product identifiers', the substance dataset (or the MiM dataset) is not needed and must not be linked.
Concentration range	**FLEXIBLE_RECORD.MixtureComposition.Components.Components.ConcentrationRange** Mandatory - Numeric range (decimal) with picklists(single) This field allows encoding the MiM component concentration either as exact or range percentages. Concentrations can be expressed using the following mandatory Picklist (single) values: • "% (w/w)"; or • "% (v/v)" The selected picklist (single) value must be consistent for all the components provided in the mixture composition. When encoding concentration ranges it is also possible to specify the upper and lower limits percentages for each of the component using the following qualifiers: • ">" or ">=" for the lower numeric value; and • "<" or "<=" for the upper numeric value
Components – End of Repeatable block	

6.4 MiM Suppliers

FLEXIBLE_RECORD.Suppliers – Field definitions

Field	Description
Name	**FLEXIBLE_RECORD.Suppliers.ManufacturerImportForm.LegalEntity** Mandatory - When applicable in a MiM Limited Dataset. Link to MiM Supplier – Legal entity document. For additional information on when this field is requested by the regulation see Encoding the Mixture in Mixture (MiM) dataset.

6.5 MiM Supplier – Legal entity

LEGAL_ENTITY - Field definitions

Field	Path and Description
Legal entity name	**LEGAL_ENTITY.GeneralInfo.LegalEntityName** Mandatory - Text (255 char.) – Company name
Address 1	**LEGAL_ENTITY.ContactInfo.ContactAddress.ContactAddress.street1** Mandatory - Text (255 char.) – Company address

Address 2	**LEGAL_ENTITY.ContactInfo.ContactAddress.ContactAddress.street2** Optional - Text (255 char.) – Company address
Postal code	**LEGAL_ENTITY.ContactInfo.ContactAddress.ContactAddress.zipcode** Mandatory - Text (255 char.) – Company postal code
Town	**LEGAL_ENTITY.ContactInfo.ContactAddress.ContactAddress.city** Mandatory - Text (255 char.) – Company town or city
Country	**LEGAL_ENTITY.ContactInfo.ContactAddress.ContactAddress.country** Mandatory – Picklist (single) A31 - v2.0 – Company country -
Phone	**LEGAL_ENTITY.ContactInfo.ContactAddress.ContactAddress.phone** Mandatory - Text (255 char.) – Company phone number
Email	**LEGAL_ENTITY.ContactInfo.ContactAddress.ContactAddress.email** Mandatory - Text (255 char.) – Company email address

6.6 MiM Classification

The classification of MiM components for Health and Physical hazards including hazard classes, hazard categories and hazard statements should be provided.

⚠ This document is always needed even in case the MiM is non-hazardous or not classified according to CLP criteria. In this cases the field <Not classified> of the document must be set to <true> and the remaining fields must not be provided.

For each Physical Hazards or Health Hazards repeatable block several pre-defined categories are available for selection (according to CLP regulation criteria).

FLEXIBLE_RECORD.Ghs – Field definitions

Field	Description
Not classified	**FLEXIBLE_RECORD.Ghs.GeneralInformation.NotClassified** Mandatory – Check Box (True/False)

Classification – Physical and Health Hazards – Start of repeatable blocks See Appendix 7 – Physical Hazards / Health Hazards	
Hazard category/class	Mandatory – Picklist (single) This field must contain the correct and relevant hazard class from a predefined list of existing values (according to CLP regulation criteria).
Hazard statements	Mandatory – Picklist (single) This field must contain the correct and relevant hazard statements from a predefined list of existing values (according to the CLP regulation criteria).
Classification – Physical and Health Hazards – End of repeatable blocks	

6.7 MiM Safety data sheet & Toxicological information

This document is not mandatory in the dossier, however the SDS section may be mandatory for Mixture in Mixtures. For additional information on the cases when this section should be provided according with the regulation see

Encoding the Mixture in Mixture (MiM) dataset.

FLEXIBLE_RECORD.SDSInfoMixture – Field definitions

Field	Description

Name or trade name of mixture / product	**FLEXIBLE_RECORD.SDSInfoMixtures.InformationOnMixtures.MixtureProductName** Optional – Text (2,000 char.) This field is not required from a regulatory perspective and it is also not mandatory, however, it can be used internally and for reference purposes in order to easily identify the SDS if provided.
Safety data sheets of mixture / product – Start of repeatable block	
Safety data sheet	**FLEXIBLE_RECORD.SDSInfoMixtures.InformationOnMixtures.TradeNamesAndSafetyDataSheetsOfTheMixture.TradeNamesAndSafetyDataSheets.Attachment** Mandatory – Only when applicable for MiM – Attachment (single)
Country	**FLEXIBLE_RECORD.SDSInfoMixtures.InformationOnMixtures.TradeNamesAndSafetyDataSheetsOfTheMixture.TradeNamesAndSafetyDataSheets.Country** Optional – Picklist (single) – EU-EEA - v2.0
Language	**FLEXIBLE_RECORD.SDSInfoMixtures.InformationOnMixtures.TradeNamesAndSafetyDataSheetsOfTheMixture.TradeNamesAndSafetyDataSheets.Language** Optional – Picklist (single) – PG6-60564 - v1.0
Remarks	**FLEXIBLE_RECORD.SDSInfoMixtures.InformationOnMixtures.TradeNamesAndSafetyDataSheetsOfTheMixture.TradeNamesAndSafetyDataSheets.Remarks** Optional – Text (2,000 char.)
Safety data sheets of mixture / product – End of repeatable block	

7. Encoding the Dossier Header

A single Dossier header document must be provided in a dossier. The Dossier header contains administrative and technical information that are required in order to process correctly the information received.

Once the dossier has been transmitted electronically to the relevant authorities, it cannot be modified and sent again as is, so if changes are required, the Dossier must be re-created re-using the existing documents if needed. However, the correct information should be encoded in the Dossier header document providing the indication in case of updates or corrections and assigning a new (snapshot) UUID to the new dossier.

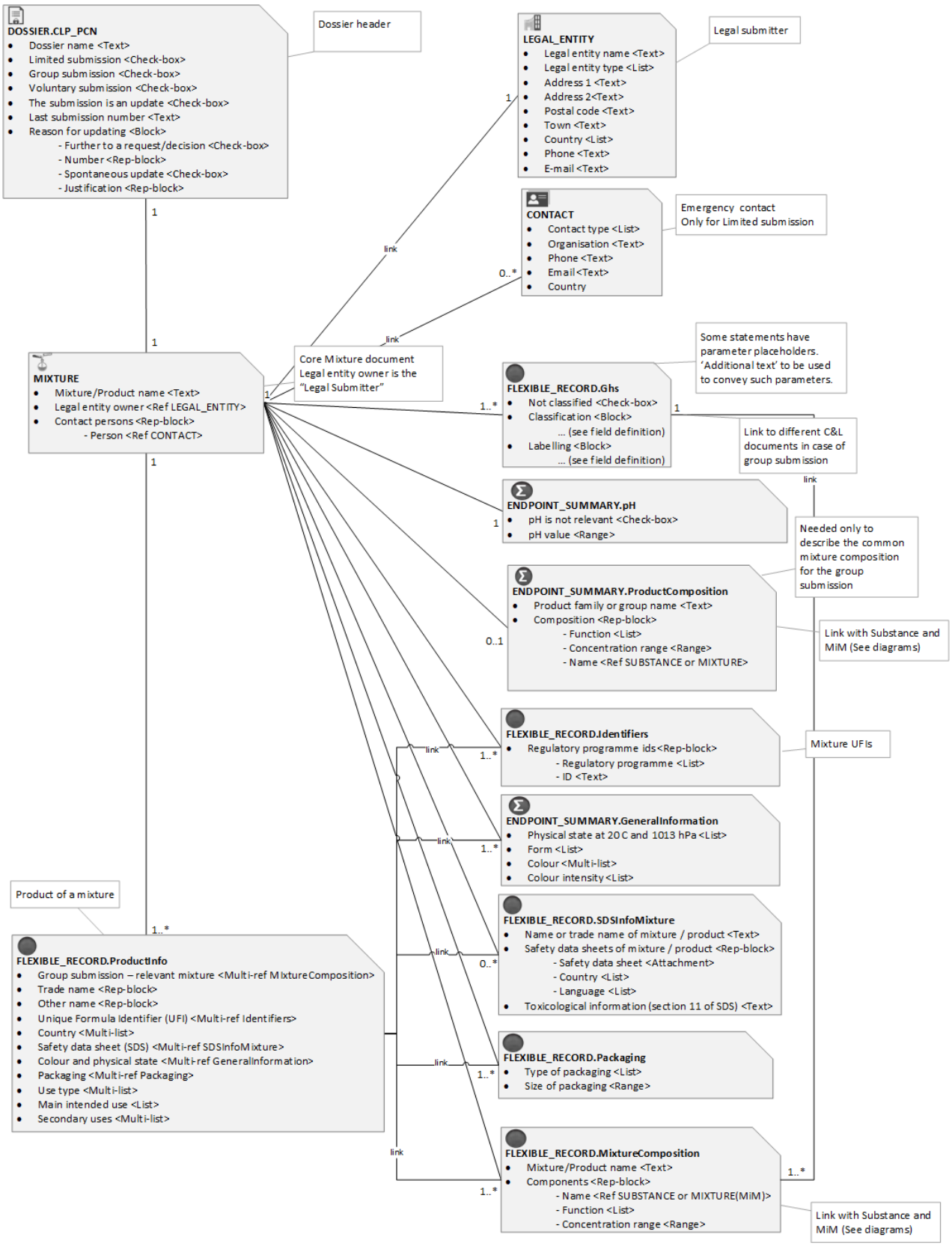
DOSSIER.CLP_PCN – Field definition

Field	Description
Dossier name (given by user)	**DOSSIER.CLP_PCN.DossierTemplate.NameGivenByUser** Mandatory - Text (255 char.) This field is not required by the regulation however it is mandatory for compliance with the IUCLID format. The field is also useful for internal reasons in order to easily identify the submitted dossier. For example internal incremental reference numbers and/or codes can be used in order to keep track and better organize the information submitted.
Dossier submission remark	**DOSSIER.CLP_PCN.DossierSubject.DossierSubmissionRemark** Optional - Text (32,768 char.) This field is not required by the regulation however, it may be useful for internal reasons in order to keep track of additional notes and internal remarks.
Limited submission (industrial use only)	**DOSSIER.CLP_PCN.SpecificSubmissions.LimitedSubmission** Check box (True/false) Must be set to <true> in case of limited submissions
Group submission	**DOSSIER.CLP_PCN.SpecificSubmissions.GroupSubmission** Check box (True/false) Must be set to <true> in case of group submissions
Non hazardous mixture	**DOSSIER.CLP_PCN.SpecificSubmissions.NonHazardousMixture** Check box (True/false) Must be set to <true> in case of voluntary non-hazardous submissions
The submission is an update	**DOSSIER.CLP_PCN.SpecificSubmissions.SubmissionIsAnUpdate** Check box (True/false) Must be set to <true> in case the dossier is an update of an existing notification.

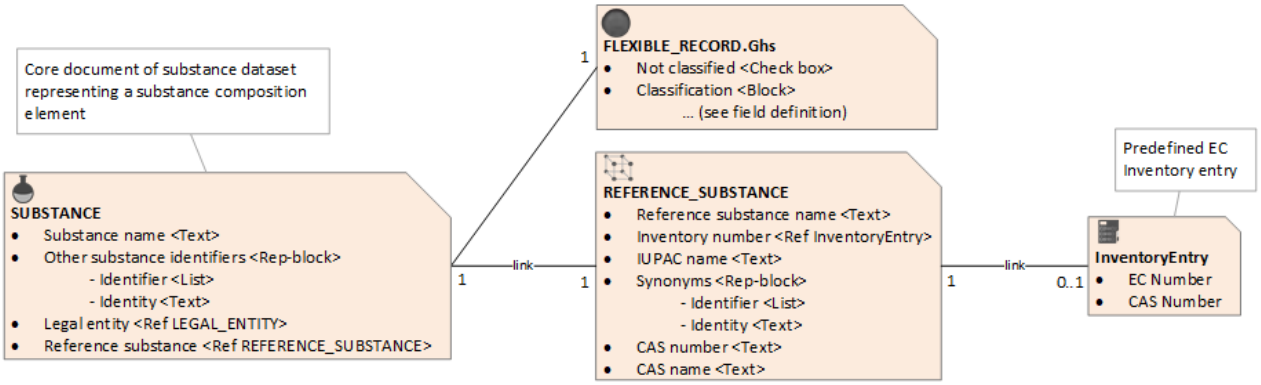
Last submission number	**DOSSIER.CLP_PCN.SpecificSubmissions.LastSubmissionType** Mandatory in case field <*The submission is an update*> is set to <true> - Text (255 char.) This field represents the last (successful) submission number assigned as unique identifier to the previous transmitted dossier by any external system processing the file. In case of update, the field must contain the correct last (successful) submission number (or unique dossier reference).
Reason for updating	
Further to a request/decision from a regulatory body	**DOSSIER.CLP_PCN.SpecificSubmissions.ReasonForUpdating.AfterRequestDecisionRegulatoryBody** Mandatory - Check box (True/false) Must be set to <true> in case the dossier is an update of an existing notification requested from an Appointed body. Must be set to <false> in case the dossier is an initial submission of a new notification.
Number - Start of repeatable block	
Number	**DOSSIER.CLP_PCN.SpecificSubmissions.ReasonForUpdating.AfterRequestDecisionRegulatoryBody.Number** Optional - Text (255 char.)
Remarks	**DOSSIER.CLP_PCN.SpecificSubmissions.ReasonForUpdating.AfterRequestDecisionRegulatoryBody.Remarks** Optional - Text (255 char.)
Number - End of repeatable block	
Spontaneous update	**DOSSIER.CLP_PCN.SpecificSubmissions.ReasonForUpdating.SpontaneousUpdate** Check box (True/false) Must be set to <true> in case the dossier is an update of an existing notification initiated spontaneously either in order to comply with what requested in regulation.
Justification - Start of repeatable block	

Justification	**DOSSIER.CLP_PCN.SpecificSubmissions. ReasonForUpdating.AfterSpontaneousUpdate.Justification** Mandatory in case field <*Spontaneous update*> is set to <*true*> Picklist (single) – PG6-60571 v1.0 The field can contain one single identifier from a list of predefined values: • change in composition of the mixture (addition, deletion, substitution of component) • change in composition of the mixture (change in the concentration range) • change in composition of the mixture (change in the exact concentration) • change in the mixture classification • change in the product identifier • new toxicological information available • other: <text> When 'other' is selected the <text> field must contain the reason for update.
Remarks	**DOSSIER.CLP_PCN.SpecificSubmissions. ReasonForUpdating.AfterSpontaneousUpdate.Remarks** Optional - Text (255 char.)
Justification - End of repeatable block	

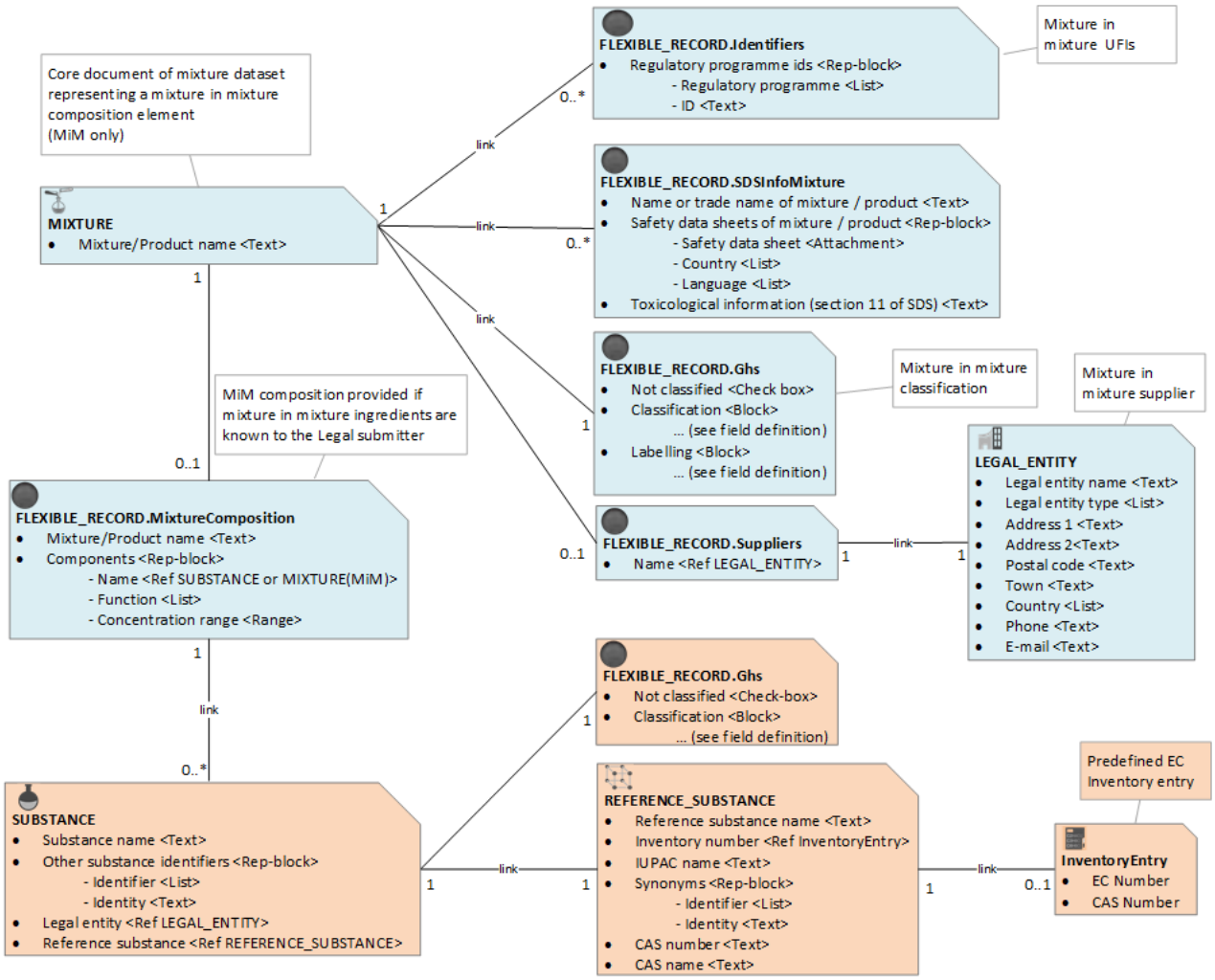
Appendix 1. Mixture notification dataset



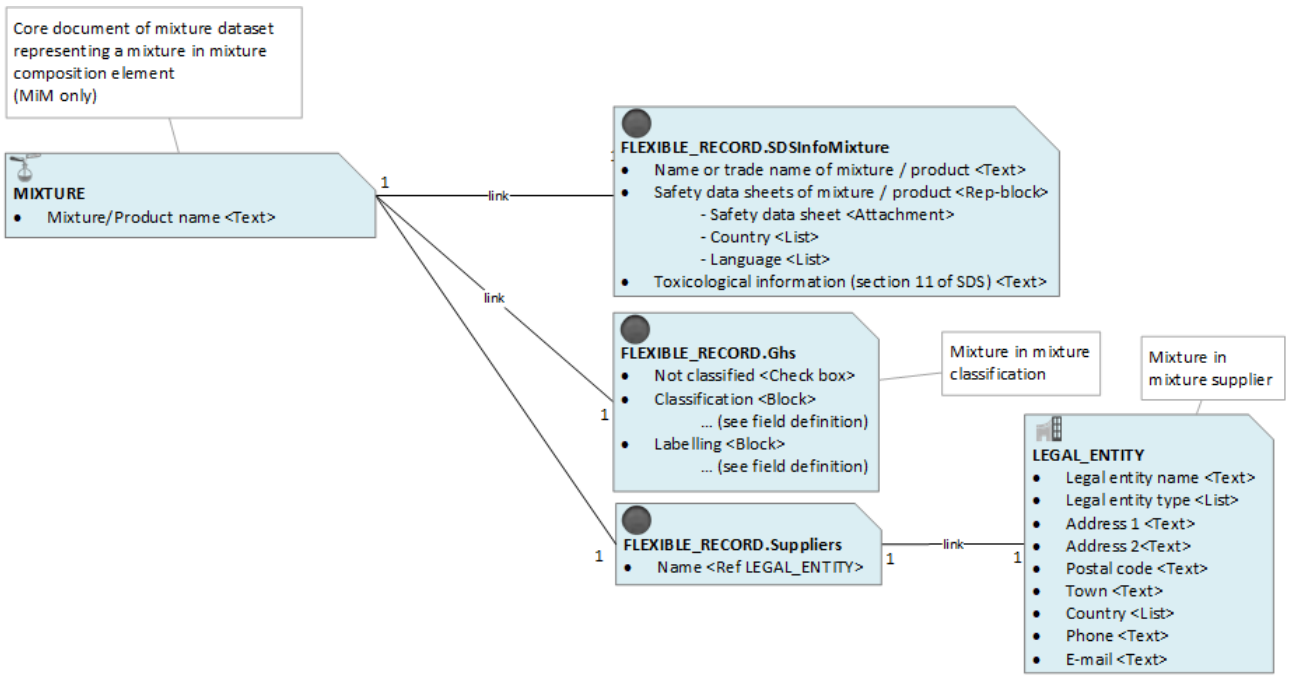
Appendix 2. Substance dataset



Appendix 3. Mixture in Mixture (MiM) - Known components



Appendix 4. Mixture in Mixture (MiM) – Limited dataset



Appendix 5. Picklists

A31 - v2.0 – Countries for Legal Entity

Phraseid	Phrasetext
3446	Åland
2683	Afghanistan
2684	Albania
2685	Algeria
2686	American Samoa
2688	Andorra
2689	Angola
2690	Anguilla
2692	Antarctica
2695	Antigua and Barbuda
2696	Argentina
2697	Armenia
2698	Aruba
107	Australia
108	Austria
2701	Azerbaijan
2702	Bahamas
2703	Bahrain
2704	Bangladesh
2705	Barbados
2707	Belarus
147	Belgium
2708	Belize

2709	Benin
2710	Bermuda
2711	Bhutan
2720	Bolivia, Plurinational State of
2722	Bosnia and Herzegovina
2723	Botswana
2724	Bouvet Island
2725	Brazil
2726	British Indian Ocean Territory
3421	British Virgin Islands
2727	Brunei Darussalam
184	Bulgaria
2729	Burkina Faso
2730	Burundi
2736	Cabo Verde
2734	Cambodia
2735	Cameroon
206	Canada
2746	Cayman Islands
2747	Central African Republic
2748	Chad
2749	Chile
2750	China (People’s Republic of)
2751	Christmas Island
2754	Cocos (Keeling) Islands
2755	Colombia

2759	Comoros
2764	Congo
2769	Cook Islands
2771	Costa Rica
2774	Côte d'Ivoire
286	Croatia
2773	Cuba
304	Cyprus
307	Czech Republic
2765	Democratic Republic of the Congo
2882	Democratic People's Republic of Korea
333	Denmark
2790	Djibouti
2791	Dominica
2792	Dominican Republic
2799	Ecuador
2800	Egypt
2801	El Salvador
2803	Equatorial Guinea
2804	Eritrea
754	Estonia
2805	Ethiopia
2813	Falkland Islands (Malvinas)
2815	Faroe Islands
2817	Fiji
766	Finland

2897	Former Yugoslav Republic of Macedonia
779	France
2825	French Guiana
2826	French Polynesia
2827	French Southern and Antarctic Lands
2828	Gabon
2829	Gambia
2834	Georgia
807	Germany
2835	Ghana
2836	Gibraltar
810	Greece
2838	Greenland
2839	Grenada
2840	Guadeloupe
2841	Guam
2842	Guatemala
7818	Guernsey
2843	Guinea
2844	Guinea-Bissau
2845	Guyana
2846	Haiti
2851	Heard Island and McDonald Islands
2854	Holy See
2855	Honduras
2856	Hong Kong (China)

845	Hungary
882	Iceland
2865	India
2866	Indonesia
2870	Iran
2871	Iraq
911	Ireland
7819	Isle of Man
2876	Israel
916	Italy
2877	Jamaica
918	Japan
7820	Jersey
2878	Jordan
2879	Kazakhstan
2880	Kenya
2881	Kiribati
2883	Korea
2884	Kuwait
2885	Kyrgyzstan
2886	Lao People's Democratic Republic
985	Latvia
2887	Lebanon
2888	Lesotho
2889	Liberia
2890	Libya

2891	Liechtenstein
1024	Lithuania
1041	Luxembourg
2896	Macau (China)
2898	Madagascar
2899	Malawi
2900	Malaysia
2901	Maldives
2902	Mali
1048	Malta
2904	Marshall Islands
2905	Martinique
2908	Mauritania
2909	Mauritius
2910	Mayotte
1067	Mexico
3877	Micronesia
2919	Moldova
2921	Monaco
2922	Mongolia
7821	Montenegro
2924	Montserrat
2925	Morocco
2926	Mozambique
2930	Myanmar
2932	Namibia

2933	Nauru
2934	Nepal
1158	Netherlands
2938	New Caledonia
1161	New Zealand
2939	Nicaragua
2940	Niger
2941	Nigeria
2942	Niue
2945	Norfolk Island
2946	Northern Mariana Islands
1175	Norway
2977	Oman
2984	Pakistan
2985	Palau
2986	Palestinian Authority
2987	Panama
2988	Papua New Guinea
2989	Paraguay
2994	Peru
2995	Philippines
3000	Pitcairn
1394	Poland
1401	Portugal
3027	Puerto Rico
3028	Qatar

1496	Romania
3177	Réunion
3175	Russia
3176	Rwanda
7823	Saint Barthélemy
3318	Saint Helena
3319	Saint Kitts and Nevis
3320	Saint Lucia
7824	Saint Martin
3321	Saint Pierre and Miquelon
3322	Saint Vincent and the Grenadines
3323	Samoa
3324	San Marino
3325	Sao Tome and Principe
3326	Saudi Arabia
3328	Senegal
3332	Serbia
3333	Seychelles
3336	Sierra Leone
3337	Singapore
3339	Slovak Republic
1562	Slovenia
3340	Solomon Islands
3343	Somalia
3344	South Africa
3345	South Georgia and the South Sandwich Islands

1567	Spain
3346	Sri Lanka
3352	Sudan
3355	Suriname
3357	Svalbard and Jan Mayen
3358	Swaziland
1591	Sweden
1595	Switzerland
3359	Syrian Arab Republic
64842	Chinese Taipei
3363	Tajikistan
3364	Tanzania, United Republic of
3366	Thailand
3370	Timor-Leste
3371	Togo
3372	Tokelau
3373	Tonga
3393	Trinidad and Tobago
3394	Tunisia
1641	Turkey
3395	Turkmenistan
3396	Turks and Caicos Islands
3397	Tuvalu
3402	Uganda
3403	Ukraine
3406	United Arab Emirates

1651	United Kingdom
1652	United States
3407	United States Minor Outlying Islands
3422	United States Virgin Islands
3410	Uruguay
3412	Uzbekistan
3414	Vanuatu
3416	Venezuela
3420	Viet Nam
3425	Wallis And Futuna
3428	Western Sahara
3433	Yemen
3434	Zambia
3435	Zimbabwe
1342	other:

N03 – v1.0 – Countries – Emergency contact

2683	**Afghanistan**
3446	Åland Islands
2684	Albania
2685	Algeria
2686	American Samoa
2688	Andorra
2689	Angola

2690	Anguilla
2692	Antarctica
2695	Antigua and Barbuda
2696	Argentina
2697	Armenia
2698	Aruba
107	Australia
108	Austria
2701	Azerbaijan
2702	Bahamas
2703	Bahrain
2704	Bangladesh
2705	Barbados
2707	Belarus
147	Belgium
2708	Belize
2709	Benin
2710	Bermuda
2711	Bhutan

2720	Bolivia, Plurinational State of
2722	Bosnia and Herzegovina
2723	Botswana
2724	Bouvet Island
2725	Brazil
2726	British Indian Ocean Territory
2727	Brunei Darussalam
184	Bulgaria
2729	Burkina Faso
2730	Burundi
2734	Cambodia
2735	Cameroon
206	Canada
2736	Cape Verde
2746	Cayman Islands
2747	Central African Republic
2748	Chad
2749	Chile
2750	China

2751	Christmas Island
2754	Cocos (Keeling) Islands
2755	Colombia
2759	Comoros
2764	Congo
2765	Congo, The Democratic Republic of the
2769	Cook Islands
2771	Costa Rica
2774	Côte d'Ivoire
286	Croatia
2773	Cuba
304	Cyprus
307	Czech Republic
333	Denmark
2790	Djibouti
2791	Dominica
2792	Dominican Republic
2799	Ecuador
2800	Egypt

2801	El Salvador
2803	Equatorial Guinea
2804	Eritrea
754	Estonia
2805	Ethiopia
2813	Falkland Islands (Malvinas)
2815	Faroe Islands
2817	Fiji
766	Finland
779	France
2825	French Guiana
2826	French Polynesia
2827	French Southern Territories
2828	Gabon
2829	Gambia
2834	Georgia
807	Germany
2835	Ghana
2836	Gibraltar

810	Greece
2838	Greenland
2839	Grenada
2840	Guadeloupe
2841	Guam
2842	Guatemala
7818	Guernsey
2843	Guinea
2844	Guinea-Bissau
2845	Guyana
2846	Haiti
2851	Heard Island and McDonald Islands
2854	Holy See (Vatican City State)
2855	Honduras
2856	Hong Kong
845	Hungary
882	Iceland
2865	India
2866	Indonesia

2870	Iran, Islamic Republic of
2871	Iraq
911	Ireland
7819	Isle of man
2876	Israel
916	Italy
2877	Jamaica
918	Japan
7820	Jersey
2878	Jordan
2879	Kazakhstan
2880	Kenya
2881	Kiribati
2882	Korea, Democratic People's Republic of
2883	Korea, Republic Of
2884	Kuwait
2885	Kyrgyzstan
2886	Lao People's Democratic Republic
985	Latvia

2887	Lebanon
2888	Lesotho
2889	Liberia
2890	Libyan Arab Jamahiriya
2891	Liechtenstein
1024	Lithuania
1041	Luxembourg
2896	Macao
2897	Macedonia, the former Yugoslav Republic of
2898	Madagascar
2899	Malawi
2900	Malaysia
2901	Maldives
2902	Mali
1048	Malta
2904	Marshall Islands
2905	Martinique
2908	Mauritania
2909	Mauritius

2910	Mayotte
1067	Mexico
2914	Micronesia, Federated States of
2919	Moldova, Republic of
2921	Monaco
2922	Mongolia
7821	Montenegro
2924	Montserrat
2925	Morocco
2926	Mozambique
2930	Myanmar
2932	Namibia
2933	Nauru
2934	Nepal
1158	Netherlands
2935	Netherlands Antilles
2938	New Caledonia
1161	New Zealand
2939	Nicaragua

2940	Niger
2941	Nigeria
2942	Niue
2945	Norfolk Island
2946	Northern Mariana Islands
1175	Norway
2977	Oman
2984	Pakistan
2985	Palau
2986	Palestinian Territory, occupied
2987	Panama
2988	Papua New Guinea
2989	Paraguay
2994	Peru
2995	Philippines
3000	Pitcairn
1394	Poland
1401	Portugal
3027	Puerto Rico

3028	Qatar
3177	Réunion
1496	Romania
3175	Russian Federation
3176	Rwanda
7823	Saint Barthélemy
3318	Saint Helena
3319	Saint Kitts and Nevis
3320	Saint Lucia
7824	Saint Martin
3321	Saint Pierre and Miquelon
3322	Saint Vincent and the Grenadines
3323	Samoa
3324	San Marino
3325	Sao Tome and Principe
3326	Saudi Arabia
3328	Senegal
3332	Serbia
3333	Seychelles

3336	Sierra Leone
3337	Singapore
3339	Slovakia
1562	Slovenia
3340	Solomon Islands
3343	Somalia
3344	South Africa
3345	South Georgia and the South Sandwich Islands
1567	Spain
3346	Sri Lanka
3352	Sudan
3355	Suriname
3357	Svalbard and Jan Mayen
3358	Swaziland
1591	Sweden
1595	Switzerland
3359	Syrian Arab Republic
3362	Taiwan, Province of China
3363	Tajikistan

3364	Tanzania, United Republic of
3366	Thailand
3370	Timor-Leste
3371	Togo
3372	Tokelau
3373	Tonga
3393	Trinidad and Tobago
3394	Tunisia
1641	Turkey
3395	Turkmenistan
3396	Turks and Caicos Islands
3397	Tuvalu
3402	Uganda
3403	Ukraine
3406	United Arab Emirates
1651	United Kingdom
1652	United States
3407	United States Minor Outlying Islands
3410	Uruguay

3412	Uzbekistan
3414	Vanuatu
3416	Venezuela, Bolivarian Republic of
3420	Viet Nam
3421	Virgin Islands, British
3422	Virgin Islands, U.S.
3425	Wallis And Futuna
3428	Western Sahara
3433	Yemen
3434	Zambia
3435	Zimbabwe
1342	other:

N97 – v2.0 - Identifiers

Phraseid	Phrasetext
4174	CAS name
4175	CAS number
9167	CLP alternative name
55444	CLP index number - harmonised C&L
2757	Colour Index

60821	E number
4177	EC name
4178	EC number
2812	FEMA number
60822	INCI name
2860	ISO name
3398	UN name/number
4176	common name
9168	trade name
1342	other:

N28A - v2.0 / BIO01 - v2.0 – Function for GPI (Group/Standard submission)

phraseid	phrasetext
2756	colourant
2824	fragrance
64942	perfume

N24 – v1.0 – Unit for concentration

Phraseid	Phrasetext
2505	% (w/w)
2506	% (v/v)

A19 – v1.0 – Mixture physical state

Phraseid	Phrasetext
1936	gaseous
2038	liquid
2381	solid

A101 - v3.0 – Mixture form

Phraseid	Phrasetext
60037	aerosol dispenser: not specified
60038	aerosol dispenser: foam aerosol
60039	aerosol dispenser: spray aerosol
2830	gas
60040	gas: vapour
60041	gas under pressure: compressed gas
60042	gas under pressure: dissolved gas
60043	gas under pressure: liquefied gas
60044	gas under pressure: refrigerated liquefied gas
64931	cream / paste
5994	foam
6003	gel
2038	liquid
60048	liquid: viscous
60049	liquid: volatile
60045	liquid - liquid: emulsion
60047	liquid - solid: mixture of
60050	semi-solid (amorphous): gel

2381	solid
61424	solid: bulk
60051	solid: compact
60052	solid: crystalline
60053	solid: fibres
60054	solid: filaments
60055	solid: flakes
60056	solid: granular
60058	solid: particulate/powder
60057	solid: pellets
64932	solid: pressed powder
61861	solid: nanomaterial, surface-treated
61862	solid: nanomaterial, no surface treatment
60059	solid: nanomaterial
64933	solid: tabs / tablets
60062	solid - liquid: aqueous solution
60063	solid - liquid: suspension
60064	solid - solid: alloy
1342	other:
2207	not specified

PG6-60192 - v1.1 – Identifiers

Phraseid	Phrasetext
4174	CAS name
4175	CAS number

4177	EC name
4178	EC number
3452	IUPAC name
60820	ChemSpider ID
2757	Colour Index
4176	common name
60821	E number
60822	INCI name
60823	PubChem
1342	other:

PG6-60569 - v1.0 – Mixture colour

Phraseid	Phrasetext
64912	colourless
64913	black
64914	blue
64915	brown
64916	gold
64917	green
64918	grey
64919	orange
64920	pink
64921	purple

64922	red
64923	silver
64924	violet
64925	white
64926	yellow
64927	multicolour (select all relevant colours)
64928	mixture containing generic product identifier ‘colouring agent’ (select all relevant colours)

PG6-60568 - v1.0 – Mixture colour intensity

Phraseid	Phrasetext
64908	transparent
64909	light
64910	dark
64911	fluorescent

PG6-60571 - v1.0 – Justifications for update

Phraseid	Phrasetext
64936	change in composition of the mixture (addition, deletion, substitution of component)
64937	change in composition of the mixture (change in the concentration range)
64938	change in composition of the mixture (change in the exact concentration)
64939	change in the mixture classification
64940	change in the product identifier
64941	new toxicological information available
1342	other:

EU-EEA - v2.0 – Market placement / Country

Phraseid	Phrasetext
108	Austria
147	Belgium
184	Bulgaria
58543	Croatia
304	Cyprus
307	Czech Republic
333	Denmark
754	Estonia
766	Finland
779	France
807	Germany
810	Greece
845	Hungary
882	Iceland
911	Ireland
916	Italy
985	Latvia
2891	Liechtenstein
1024	Lithuania
1041	Luxembourg
1048	Malta
1158	Netherlands
1175	Norway
1394	Poland

1401	Portugal
1496	Romania
3339	Slovak Republic
1562	Slovenia
1567	Spain
1591	Sweden
1651	United Kingdom

PG6-60564 - v1.0 - Languages

Phraseid	Phrasetext
3601	Bulgarian
3633	Croatian
3609	Czech
3611	Danish
355	Dutch
3615	English
3618	Estonian
3621	Finnish
3624	French
3612	German
3614	Greek
3634	Hungarian

3640	Icelandic
3626	Irish
3641	Italian
3659	Latvian
3658	Lithuanian
3668	Maltese
3673	Norwegian
1395	Polish
3680	Portuguese
3684	Romanian
3692	Slovak
3693	Slovenian
3617	Spanish
3702	Swedish

PG6-60565 - v1.0 – Use types

Phraseid	Phrasetext
64873	Consumer
58391	Professional
3862	Industrial

B05 - v2.0 – Packaging type

Phraseid	Phrasetext
58353	aerosol can
58354	airspray
64859	atomizer
58355	bag / sack
58356	baitbox
58357	blister
58358	bottle
58359	box
64861	brick
64862	bucket
58360	can / tin
64863	carboy
58361	case
64864	dispenser
58362	dropper
58363	drum
64865	envelope
58364	IBC (intermediate bulk container)

64866	jar
58365	jerry can
64867	jug
58366	packet
58367	sachet
64868	phial
64869	stick
64870	syringe
58368	talcum powder container
64871	tank
58369	tea bag (product disperses through the container when added to water)
64872	tube
58370	water soluble bag
1342	other:

B06 - v2.0 – Packaging size

Phraseid	Phrasetext
58371	mL
64929	mg

58372	L
58373	g
58374	kg
64930	tonnes
58375	cm^3
58376	m^3
58377	not applicable, ready to use product
1342	other:

PG6-60567 – V1.1 – EuPCS codes

Phraseid	Phrasetext
64945	F Mixtures for further formulation
64877	PC-ADH-1 Adhesives and sealants - household, office or school use
64878	PC-ADH-2 Adhesives and sealants - building and construction works (except cement based adhesives)
64879	PC-ADH-3 Adhesives and sealants - footwear and leather goods
64880	PC-ADH-4 Adhesives and sealants - paper and board related processes
64881	PC-ADH-5 Adhesives and sealants - transportation industry
64882	PC-ADH-6 Adhesives and sealants - woodworking and joinery (includes putty)
64883	PC-ADH-7 Adhesives and sealants - assembly line processes
64884	PC-ADH-8 Multi-component adhesives and sealants
64886	PC-ADH-OTH Other adhesives and sealants
64946	PC-AIR-1 Air care products for indoor rooms (continuous action)
64947	PC-AIR-2 Air care products for indoor rooms (instant action)

64948	PC-AIR-3 Air care products for shoes
64949	PC-AIR-4 Air care products for vehicles
64950	PC-AIR-5 Ambient deodorisers (excludes room deodorisers)
64951	PC-AIR-6 Incense
64952	PC-AIR-7 Candles - scented and unscented
64953	PC-AIR-8 Matches
64954	PC-AIR-OTH Other air care products
64955	PC-ANI-1 Additives and premixtures for animal feed
64956	PC-ANI-2 Animal shampoos and conditioners
64957	PC-ANI-OTH Other products for animals (excluding biocidal products)
64958	PC-ART-1 Artists', craft and hobby paints
64959	PC-ART-2 Finger paints
64960	PC-ART-3 Crayons, chalks and pastels
64961	PC-ART-4 Auxiliary materials for artists
64962	PC-ART-5 Modelling compounds
64963	PC-ART-6 Chemical products used for decorative purposes
64964	PC-ART-OTH Other art materials (including chemical products used for decorative purposes)
64965	PC-CLN-1 Abrasive cleaning products
64966	PC-CLN-2 All-purpose (or multi-purpose) non-abrasive cleaners
64967	PC-CLN-3 Bleaching products for cleaning or laundry use (excludes biocidal products)
64968	PC-CLN-4 Descaling products
64969	PC-CLN-5 Drain cleaning products
64970	PC-CLN-6 Fireplace and smoke resin cleaners
64971	PC-CLN-7 Glass/window/mirror cleaning products (excludes windscreens)
64972	PC-CLN-8 Indoor furniture cleaning/care products (excludes leather and upholstery)
64973	PC-CLN-9 Outdoor cleaners (excludes stone, concrete and similar surfaces)

64974	PC-CLN-10.1 Cleaners for kitchen areas
64975	PC-CLN-10.2 Cleaners for kitchen machinery and equipment
64976	PC-CLN-10.3 Cooking hob cleaning/care products
64977	PC-CLN-10.4 Oven, grill or barbecue cleaners
64978	PC-CLN-10.OTH Other kitchen and related cleaning products
64979	PC-CLN-11.1 Bathroom cleaners
64980	PC-CLN-11.2 Toilet cleaners
64981	PC-CLN-11.3 Multi-flush products for toilets
64982	PC-CLN-11.OTH Other bathroom and toilet cleaning/care products (excludes biocidal products)
64983	PC-CLN-12.1 Cleaning/care products for stone and tiles - regular use
64984	PC-CLN-12.2 Heavy duty cleaning products for stone and similar surfaces
64985	PC-CLN-12.3 Grout cleaners
64986	PC-CLN-12.OTH Other stone, tile and grout cleaning/care products
64987	PC-CLN-13.2 Floor cleaning products
64988	PC-CLN-13.3 Floor care products e.g. waxes, emulsions
64989	PC-CLN-13.4 Floor strippers
64990	PC-CLN-13.OTH Other floor cleaning, care and maintenance products (excludes stone and tile)
64991	PC-CLN-14.1 Cleaning products for carpet/upholstery
64992	PC-CLN-14.2 Deodorisers or fresheners for carpet/upholstery
64993	PC-CLN-14.OTH Other carpet and upholstery products
64994	PC-CLN-15.1 Cleaners for eyewear
64995	PC-CLN-15.2 Cleaners for home electronic screens
64996	PC-CLN-15.3 Cleaners for musical instruments
64997	PC-CLN-15.4 Metal polish/tarnish remover
64998	PC-CLN-15.OTH Other cleaners for specific personal items
64999	PC-CLN-16.1 Leather - cleaning and care products

65000	PC-CLN-16.2 Textile footwear - cleaning products
65001	PC-CLN-16.3 Textile fresheners/deodorisers
65002	PC-CLN-16.4 Dry cleaning and associated products
65003	PC-CLN-16.5 Impregnation products for finished textiles and leather goods
65004	PC-CLN-16.6 Outdoor textiles - cleaning products
65005	PC-CLN-16.OTH Other textile and leather cleaning and care products (including footwear)
65006	PC-CLN-17.1 Exterior cleaning products - all vehicle types
65007	PC-CLN-17.2 Exterior care products - all vehicle types
65008	PC-CLN-17.3 Interior cleaning and care products (excludes air care products, and products for upholstery or leather)
65009	PC-CLN-17.4 Engine cleaners
65010	PC-CLN-17.5 Brake cleaners
65011	PC-CLN-17.6 Chromium, rim and other metal cleaners - all vehicle types
65012	PC-CLN-17.7 Windscreen/windshield cleaners
65013	PC-CLN-17.8 Windscreen/windshield wash fluid
65014	PC-CLN-17.OTH Other vehicle (all types) cleaning and care products
65015	PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)
65016	PC-COL-1 Dyes
65017	PC-COL-2 Pigments
65018	PC-CON-1 Cement
65019	PC-CON-2 Concrete
65020	PC-CON-3 Gypsum
65021	PC-CON-4 Mortars
65022	PC-CON-5 Construction chemicals
65023	PC-CON-OTH Other construction products
65024	PC-DET-1.1 Laundry detergent for hand washing
65025	PC-DET-1.2 Laundry detergents - household use

65026	PC-DET-1.3 Laundry detergents - professional or industrial use
65027	PC-DET-1.OTH Other laundry detergents
65028	PC-DET-2.1 Detergency boosters and in-wash stain removers
65029	PC-DET-2.2 Fabric softeners
65030	PC-DET-2.3 Ironing aid products
65031	PC-DET-2.4 Laundry starch
65032	PC-DET-2.5 Pre-treatment stain removers
65033	PC-DET-2.6 Rinse agents for laundry (excludes biocidal products)
65034	PC-DET-2.7 Washing machine care agents
65035	PC-DET-2.8 Whitening agents or optical brighteners
65036	PC-DET-2.OTH Other auxiliary laundry and care products (excludes biocidal products)
65037	PC-DET-3.1 Automatic dishwashing detergents - household use
65038	PC-DET-3.2 Automatic dishwashing detergents - professional or industrial use
65039	PC-DET-3.3 Hand dishwashing detergents
65040	PC-DET-3.OTH Other dishwashing detergents
65041	PC-DET-4.1 Dishwasher salt
65042	PC-DET-4.2 Dishwashing machine care agents
65043	PC-DET-4.3 Glass protection products
65044	PC-DET-4.4 Rinse agents for dishes
65045	PC-DET-4.OTH Other auxiliary dishwashing and care products
65046	PC-ELQ E-liquids and mixtures for electronic cigarettes
65047	PC-FER-1 Fertilisers
65048	PC-FER-2 Liming material
65049	PC-FER-3 Soil improvers
65050	PC-FER-4 Growing media
65051	PC-FER-5 Agronomic additives

65052	PC-FER-6 Plant biostimulants
65053	PC-FER-7 Combination of fertilisers and fertilising products
65054	PC-FUE-1 Fuels for vehicles and machinery
65055	PC-FUE-2 Lamp oils
65056	PC-FUE-3 Grill lighter fluids
65057	PC-FUE-4 Camp fuels
65058	PC-FUE-5 Fuel additives and fuel components
65059	PC-FUE-OTH Other fuels
65060	PC-INK-1 Writing and drawing inks
65061	PC-INK-2 Inks and toners for home and office printers
65062	PC-INK-3 Commercial printing inks, toners and related finishing products
65063	PC-INK-4 Pressroom chemicals
65064	PC-INK-5 Correction fluids
65065	PC-INK-OTH Other inks, toners and related printing materials
65066	PC-PNT-1 Aerosol paints and coatings
65067	PC-PNT-2 Paints/coatings - Decorative
65068	PC-PNT-3 Paints/coatings - Protective and functional
65069	PC-PNT-4 Marine vessel coatings (excludes anti-fouling products)
65070	PC-PNT-5 Automotive and aerospace coatings
65071	PC-PNT-6 Factory-applied coatings (excludes categories already covered)
65072	PC-PNT-7 Paint removers, thinners and related auxiliaries
65073	PC-PNT-OTH Other paints and coating materials
65074	PC-PYR-1 Fire works for indoor use
65075	PC-PYR-2 Fire works for outdoor use
65076	PC-PYR-3 Theatrical pyrotechnic products
65077	PC-PYR-4 Signalling products

65078	PC-PYR-OTH Other pyrotechnic products
65079	PC-TAT Tattoo inks
65080	PC-TEC-1 Adsorbents
65081	PC-TEC-2 Antifreeze and de-icing products
65082	PC-TEC-3 Desiccants
65083	PC-TEC-4 Electrolytes for batteries
65084	PC-TEC-5 Fire extinguishers
65085	PC-TEC-6 Fragrances
65086	PC-TEC-7 Heat transfer fluids
65087	PC-TEC-8 Hydraulic fluids, including brake and transmission fluids
65088	PC-TEC-9 Intermediates
65089	PC-TEC-10 Leather treatment products (excludes dyes and pigments)
65090	PC-TEC-11 Lubricants, greases, release agents
65091	PC-TEC-12 Metal surface treatment products
65092	PC-TEC-13 Metal working fluids
65093	PC-TEC-14 Paper and board treatment products (excluding dyes)
65094	PC-TEC-15 Photochemicals
65095	PC-TEC-16 Polymer preparations and compounds
65096	PC-TEC-17 Processing aids
65097	PC-TEC-18 Products used in mining, oil or gas exploration processes
65098	PC-TEC-19 Reagents and laboratory chemicals
65099	PC-TEC-20 Soil remediation products
65100	PC-TEC-21 Solvents and extraction agents
65101	PC-TEC-22 Surfactants mixtures for industrial applications
65102	PC-TEC-23 Textile treatment products (excludes dyes and pigments)
65103	PC-TEC-24 Welding, soldering, and flux products

65104	PC-TEC-OTH Other products for chemical or technical processes
65105	PC-UNC Chemical products - uncategorised
65106	PP-BIO-1 Biocidal products for human hygiene
65107	PP-BIO-2 Disinfectants and algaecides not intended for direct application to humans or animals
65108	PP-BIO-3 Biocidal products for veterinary hygiene
65109	PP-BIO-4 Biocidal products for food and feed area
65110	PP-BIO-5 Biocidal products for drinking water
65111	PP-BIO-6 Biocidal products used as preservatives for products during storage
65112	PP-BIO-7 Film preservatives
65113	PP-BIO-8 Wood preservatives
65114	PP-BIO-9 Fibre, leather, rubber and polymerised materials preservatives
65115	PP-BIO-10 Construction material preservatives
65116	PP-BIO-11 Preservatives for liquid-cooling and processing systems
65117	PP-BIO-12 Slimicides
65118	PP-BIO-13 Working or cutting fluid preservatives
65119	PP-BIO-14 Rodenticides (excluding for plant protection)
65120	PP-BIO-15 Avicides
65121	PP-BIO-16 Molluscicides, vermicides and products to control other invertebrates (excluding plant protection products)
65122	PP-BIO-17 Piscicides
65123	PP-BIO-18 Insecticides, acaricides and products to control other arthropods (excluding equivalent products when used as pesticides)
65124	PP-BIO-19 Repellents and attractants
65125	PP-BIO-20 Control of other vertebrates
65126	PP-BIO-21 Antifouling products
65127	PP-BIO-22 Embalming and taxidermist fluids
65128	PP-PRD-1 Acaricides for plant protection

65129	PP-PRD-2 Attractants (excluding semio-chemicals)
65130	PP-PRD-3 Bactericides for plant protection
65131	PP-PRD-4 Biopesticides for plant protection
65132	PP-PRD-5 Fungicides for plant protection
65133	PP-PRD-6 Herbicides for plant protection, including haulm destructors and moss killers
65134	PP-PRD-7 Insecticides for plant protection
65135	PP-PRD-8 Molluscicides for plant protection
65136	PP-PRD-9 Nematicides for plant protection
65137	PP-PRD-10 Plant growth regulators
65138	PP-PRD-11 Repellents for plant protection
65139	PP-PRD-12 Rodenticides for plant protection
65140	PP-PRD-13 Semio-chemicals
65141	PP-PRD-14 Soil sterilants
65142	PP-PRD-15 Talpicides for plant protection
65143	PP-PRD-16 Viricides for plant protection
65144	PP-PRD-OTH Other plant protection products

Appendix 6. GHS

Physical hazards – Fields and related picklists

Label	DataType	Path	Phrase group
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.Explosives.HazardCategory	GHS02 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.Explosives.HazardStatement	GHS32 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.FlammableGases.HazardCategory	GHS03 - v2.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.FlammableGases.HazardStatement	GHS33 - v2.1
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.FlammableAerosols.HazardCategory	GHS04 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.FlammableAerosols.HazardStatement	GHS34 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.OxidisingGases.HazardCategory	GHS05 - v1.0

Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.OxidisingGases.HazardStatement	GHS35 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.GasesPres.HazardCategory	GHS06 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.GasesPres.HazardStatement	GHS36 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.FlammableLiquids.HazardCategory	GHS31 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.FlammableLiquids.HazardStatement	GHS37 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.FlammableSolids.HazardCategory	GHS07 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.FlammableSolids.HazardStatement	GHS38 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.SelfReactiveSubstMixt.HazardCategory	GHS08 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.SelfReactiveSubstMixt.HazardStatement	GHS39 - v1.0

Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.PyrophoricLiquids.HazardCategory	GHS09 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.PyrophoricLiquids.HazardStatement	GHS40 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.PyrophoricSolids.HazardCategory	GHS10 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.PyrophoricSolids.HazardStatement	GHS40 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.SelfHeatSubstMixt.HazardCategory	GHS11 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.SelfHeatSubstMixt.HazardStatement	GHS42 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.SubstMixtWater.HazardCategory	GHS12 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.SubstMixtWater.HazardStatement	GHS43 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.OxidisingLiquids.HazardCategory	GHS13 - v1.0

Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.OxidisingLiquids.HazardStatement	GHS44 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.OxidisingSolids.HazardCategory	GHS14 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.OxidisingSolids.HazardStatement	GHS44 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.OrganicPeroxides.HazardCategory	GHS15 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.OrganicPeroxides.HazardStatement	GHS46 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.CorMetals.HazardCategory	GHS16 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.CorMetals.HazardStatement	GHS47 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.DesensitizedExplosives.HazardCategory	GHS74_60408 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.PhysicalHazards.DesensitizedExplosives.HazardStatement	GHS75_60409 - v1.1

Health hazards – Fields and related picklists

Label	DataType	Path	Phrase group
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.AcuteToxicityOral.HazardCategory	GHS17 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.AcuteToxicityOral.HazardStatement	GHS48 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.AcuteToxicityDermal.HazardCategory	GHS17 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.AcuteToxicityDermal.HazardStatement	GHS48b - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.AcuteToxicityInhalation.HazardCategory	GHS17 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.AcuteToxicityInhalation.HazardStatement	GHS48c - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.Irritation.HazardCategory	GHS18 - v2.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.Irritation.HazardStatement	GHS49 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.EyeIrritation.HazardCategory	GHS19 - v1.0

Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.EyeIrritation.HazardStatement	GHS50 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.RespiratorySensitisation.HazardCategory	GHS20 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.RespiratorySensitisation.HazardStatement	GHS51 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.SkinSensitisation.HazardCategory	GHS20b - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.SkinSensitisation.HazardStatement	GHS51b - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.AspirationHazard.HazardCategory	GHS26 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.AspirationHazard.HazardStatement	GHS56 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.ReproductiveToxicity.ReproductiveToxicity.HazardCategory	GHS23 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.ReproductiveToxicity.ReproductiveToxicity.HazardStatement	GHS54 - v1.0
Specific effect	Text	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.ReproductiveToxicity.ReproductiveToxicity.SpecificEffect	n/a (Text only)
Route of exposure	Picklist (with remarks)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.ReproductiveToxicity.ReproductiveToxicity.RouteExposure	TD40 - v1.0

Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.ReproductiveToxicity.Effects.HazardCategory	GHS67 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.ReproductiveToxicity.Effects.HazardStatement	GHS68 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.GermCell.GermCell.HazardCategory	GHS21 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.GermCell.GermCell.HazardStatement	GHS52 - v1.0
Route of exposure	Picklist (with remarks)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.GermCell.GermCell.RouteExposure	TD40 - v1.0
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.Carcinogenicity.Carcinogenicity.HazardCategory	GHS22 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.Carcinogenicity.Carcinogenicity.HazardStatement	GHS53 - v1.0
Reason for no classification	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.Carcinogenicity.Carcinogenicity.ReasonForNoClassification	GHS28 - v1.0
Route of exposure	Picklist (with remarks)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.Carcinogenicity.Carcinogenicity.RouteExposure	TD40 - v1.0
Toxicity Single - Repeatable Set Start			
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.ToxicitySingle.Toxicity.Toxicity.HazardCategory	GHS24 - v1.0

Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.ToxicitySingle.Toxicity.Toxicity.HazardStatement	GHS55 - v1.0
Affected organs	Text	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.ToxicitySingle.Toxicity.Toxicity.Organs	n/a (Text only)
Route of exposure	Closed list with remarks	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.ToxicitySingle.Toxicity.Toxicity.RouteExposure	TD40 - v1.0
Toxicity Single - Repeatable Set End			
Toxicity Repeated - Repeatable Set Start			
Hazard category/class	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.ToxicityRepeated.Toxicity.Toxicity.HazardCategory	GHS25 - v1.0
Hazard statement	Picklist(single)	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.ToxicityRepeated.Toxicity.Toxicity.HazardStatement	GHS55b - v1.0
Affected organs	Text	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.ToxicityRepeated.Toxicity.Toxicity.Organs	n/a (Text only)
Route of exposure	Closed list with remarks	FLEXIBLE_RECORD.Ghs.Classification.HealthHazards.ToxicityRepeated.Toxicity.Toxicity.RouteExposure	TD40 - v1.0
Toxicity Repeated - Repeatable Set End			

Classification and labelling picklists

Phrase group	Phraseid	Phrasetext
GHS02 - v1.0	7000	Unst. Expl.
GHS02 - v1.0	7001	Expl. Div. 1.1
GHS02 - v1.0	7002	Expl. Div. 1.2
GHS02 - v1.0	7003	Expl. Div. 1.3
GHS02 - v1.0	7004	Expl. Div. 1.4
GHS02 - v1.0	7005	Expl. Div. 1.5
GHS02 - v1.0	7006	Expl. Div. 1.6
GHS32 - v1.0	7264	H200: Unstable explosives.
GHS32 - v1.0	7265	H201: Explosive; mass explosion hazard.
GHS32 - v1.0	7266	H202: Explosive, severe projection hazard.
GHS32 - v1.0	7267	H203: Explosive; fire, blast or projection hazard.
GHS32 - v1.0	7268	H204: Fire or projection hazard.
GHS32 - v1.0	7269	H205: May mass explode in fire.
GHS32 - v1.0	8293	No hazard statement
GHS03 - v2.0	7007	Flam. Gas 1

GHS03 - v2.0	7008	Flam. Gas 2
GHS03 - v2.0	8400	Flam. Gas 1, Chem. Unst. Gas A
GHS03 - v2.0	8401	Flam. Gas 1, Chem. Unst. Gas B
GHS03 - v2.0	8402	Flam. Gas 2, Chem. Unst. Gas A
GHS03 - v2.0	8403	Flam. Gas 2, Chem. Unst. Gas B
GHS03 - v2.0	62432	Flam. Gas 1, Pyr. Gas
GHS03 - v2.0	62433	Flam. Gas 2, Pyr. Gas
GHS33 - v2.1	7270	H220: Extremely flammable gas.
GHS33 - v2.1	7271	H221: Flammable gas.
GHS33 - v2.1	8404	H220: Extremely flammable gas, H230: May react explosively even in the absence of air
GHS33 - v2.1	8405	H220: Extremely flammable gas, H231: May react explosively even in the absence of air at elevated pressure and/or temperature
GHS33 - v2.1	62434	H220: Extremely flammable gas, H232: May ignite spontaneously if exposed to air
GHS33 - v2.1	8406	H221: Flammable gas, H230: May react explosively even in the absence of air
GHS33 - v2.1	8407	H221: Flammable gas, H231: May react explosively even in the absence of air at elevated pressure and/or temperature
GHS33 - v2.1	62435	H221: Flammable gas, H232: May ignite spontaneously if exposed to air
GHS04 - v1.0	7009	Aerosol 1

GHS04 - v1.0	7010	Aerosol 2
GHS04 - v1.0	8408	Aerosol 3
GHS34 - v1.0	7272	H222 : Extremely flammable aerosol, H229 : Pressurised container: May burst if heated
GHS34 - v1.0	7273	H223 : Flammable aerosol, H229 : Pressurised container: May burst if heated
GHS34 - v1.0	8409	H229: Pressurised container: May burst if heated
GHS05 - v1.0	7011	Oxid. Gas 1
GHS35 - v1.0	7287	H270: May cause or intensify fire; oxidiser.
GHS06 - v1.0	7012	Compressed gas
GHS06 - v1.0	7013	Liquefied gas
GHS06 - v1.0	7014	Refrigerated liquefied gas
GHS06 - v1.0	7015	Dissolved gas
GHS36 - v1.0	7290	H280: Contains gas under pressure; may explode if heated.
GHS36 - v1.0	7291	H281: Contains refrigerated gas; may cause cryogenic burns or injury.
GHS31 - v1.0	7159	Flam. Liquid 1
GHS31 - v1.0	7160	Flam. Liquid 2
GHS31 - v1.0	7161	Flam. Liquid 3
GHS31 - v1.0	7162	Flam. Liquid 4

GHS37 - v1.0	7274	H224: Extremely flammable liquid and vapour.
GHS37 - v1.0	7275	H225: Highly flammable liquid and vapour.
GHS37 - v1.0	7276	H226: Flammable liquid and vapour.
GHS37 - v1.0	7277	H227: Combustible liquid.
GHS07 - v1.0	7016	Flam. Solid 1
GHS07 - v1.0	7017	Flam. Solid 2
GHS38 - v1.0	7278	H228: Flammable solid.
GHS08 - v1.0	7018	Self React. Type A
GHS08 - v1.0	7019	Self React. Type B
GHS08 - v1.0	7020	Self React. Type C
GHS08 - v1.0	7021	Self React. Type D
GHS08 - v1.0	7022	Self React. Type E
GHS08 - v1.0	7023	Self React. Type F
GHS08 - v1.0	7024	Self React. Type G
GHS39 - v1.0	7279	H240: Heating may cause an explosion.
GHS39 - v1.0	7280	H241: Heating may cause a fire or explosion.
GHS39 - v1.0	7281	H242: Heating may cause a fire.

GHS39 - v1.0	8293	No hazard statement
GHS09 - v1.0	7025	Pyr. Liquid 1
GHS40 - v1.0	7282	H250: Catches fire spontaneously if exposed to air.
GHS10 - v1.0	7026	Pyr. Solid 1
GHS11 - v1.0	7027	Self Heat. 1
GHS11 - v1.0	7028	Self Heat. 2
GHS42 - v1.0	7283	H251: Self-heating: may catch fire.
GHS42 - v1.0	7284	H252: Self-heating in large quantities; may catch fire.
GHS12 - v1.0	7029	Water React. Flam. Gas 1
GHS12 - v1.0	7030	Water React. Flam. Gas 2
GHS12 - v1.0	7031	Water React. Flam. Gas 3
GHS43 - v1.0	7285	H260: In contact with water releases flammable gases which may ignite spontaneously.
GHS43 - v1.0	7286	H261: In contact with water releases flammable gases.
GHS13 - v1.0	7032	Oxid. Liquid 1
GHS13 - v1.0	7033	Oxid. Liquid 2
GHS13 - v1.0	7034	Oxid. Liquid 3
GHS44 - v1.0	7288	H271: May cause fire or explosion; strong oxidiser.

GHS44 - v1.0	7289	H272: May intensify fire; oxidiser.
GHS14 - v1.0	7035	Oxid. Solid 1
GHS14 - v1.0	7036	Oxid. Solid 2
GHS14 - v1.0	7037	Oxid. Solid 3
GHS15 - v1.0	7038	Org. Perox. Type A
GHS15 - v1.0	7039	Org. Perox. Type B
GHS15 - v1.0	7040	Org. Perox. Type C
GHS15 - v1.0	7041	Org. Perox. Type D
GHS15 - v1.0	7042	Org. Perox. Type E
GHS15 - v1.0	7043	Org. Perox. Type F
GHS15 - v1.0	7044	Org. Perox. Type G
GHS46 - v1.0	7279	H240: Heating may cause an explosion.
GHS46 - v1.0	7280	H241: Heating may cause a fire or explosion.
GHS46 - v1.0	7281	H242: Heating may cause a fire.
GHS46 - v1.0	8293	No hazard statement
GHS16 - v1.0	7045	Met. Corr. 1
GHS47 - v1.0	7292	H290: May be corrosive to metals.

GHS74_60408 - v1.0	61825	Des. Expl. 1
GHS74_60408 - v1.0	61826	Des. Expl. 2
GHS74_60408 - v1.0	61828	Des. Expl. 3
GHS74_60408 - v1.0	61829	Des. Expl. 4
GHS75_60409 - v1.1	61830	H206: Fire, blast or projection hazard; increased risk of explosion if desensitizing agent is reduced.
GHS75_60409 - v1.1	61831	H207: Fire or projection hazard; increased risk of explosion if desensitizing agent is reduced.
GHS75_60409 - v1.1	61832	H208: Fire hazard; increased risk of explosion if desensitizing agent is reduced.
GHS17 - v1.0	7046	Acute Tox. 1
GHS17 - v1.0	7047	Acute Tox. 2
GHS17 - v1.0	7048	Acute Tox. 3
GHS17 - v1.0	7049	Acute Tox. 4
GHS17 - v1.0	7050	Acute Tox. 5
GHS48 - v1.0	7293	H300: Fatal if swallowed.
GHS48 - v1.0	7294	H301: Toxic if swallowed.
GHS48 - v1.0	7295	H302: Harmful if swallowed.

GHS48 - v1.0	8208	H303: May be harmful if swallowed.
GHS48b - v1.0	7296	H310: Fatal in contact with skin.
GHS48b - v1.0	7297	H311: Toxic in contact with skin.
GHS48b - v1.0	7298	H312: Harmful in contact with skin.
GHS48b - v1.0	8209	H313: May be harmful in contact with skin.
GHS48c - v1.0	7306	H330: Fatal if inhaled.
GHS48c - v1.0	7307	H331: Toxic if inhaled.
GHS48c - v1.0	7308	H332: Harmful if inhaled.
GHS48c - v1.0	8286	H333: May be harmful if inhaled.
GHS18 - v2.0	61834	Skin Corr. 1
GHS18 - v2.0	7051	Skin Corr. 1A
GHS18 - v2.0	7052	Skin Corr. 1B
GHS18 - v2.0	7053	Skin Corr. 1C
GHS18 - v2.0	7054	Skin Irrit. 2

GHS18 - v2.0	7055	Skin Mild Irrit. 3
GHS49 - v1.0	7299	H314: Causes severe skin burns and eye damage.
GHS49 - v1.0	7300	H315: Causes skin irritation.
GHS49 - v1.0	7301	H316: Causes mild skin irritation.
GHS19 - v1.0	7056	Eye Damage 1
GHS19 - v1.0	7057	Eye Irrit. 2A
GHS19 - v1.0	7058	Eye Irrit. 2B
GHS19 - v1.0	7059	Eye Irrit. 2
GHS50 - v1.0	7302	H318: Causes serious eye damage.
GHS50 - v1.0	7303	H319: Causes serious eye irritation.
GHS50 - v1.0	7304	H320: Causes eye irritation.
GHS20 - v1.0	7060	Resp. Sens. 1
GHS20 - v1.0	8287	Resp. Sens. 1A
GHS20 - v1.0	8288	Resp. Sens. 1B
GHS51 - v1.0	7313	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
GHS20b - v1.0	7061	Skin Sens. 1

GHS20b - v1.0	8289	Skin Sens. 1A
GHS20b - v1.0	8290	Skin Sens. 1B
GHS51b - v1.0	7305	H317: May cause an allergic skin reaction.
GHS26 - v1.0	7077	Asp. Tox. 1
GHS26 - v1.0	7078	Asp. Tox. 2
GHS56 - v1.0	7309	H304: May be fatal if swallowed and enters airways.
GHS56 - v1.0	7310	H305: May be harmful if swallowed and enters airways.
GHS23 - v1.0	7068	Repr. 1A
GHS23 - v1.0	7069	Repr. 1B
GHS23 - v1.0	7070	Repr. 2
GHS54 - v1.0	7318	H360: May damage fertility or the unborn child <state specific effect if known > <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
GHS54 - v1.0	7319	H361: Suspected of damaging fertility or the unborn child <state specific effect if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
TD40 - v1.0	5136	Oral
TD40 - v1.0	5137	Dermal
TD40 - v1.0	8052	Inhalation

TD40 - v1.0	55436	Oral and Dermal
TD40 - v1.0	55437	Oral and Inhalation
TD40 - v1.0	55438	Dermal and Inhalation
GHS67 - v1.0	7571	Effect on or via lactation
GHS68 - v1.0	7320	H362: May cause harm to breast-fed children.
GHS21 - v1.0	7062	Muta. 1A
GHS21 - v1.0	7063	Muta. 1B
GHS21 - v1.0	7064	Muta. 2
GHS52 - v1.0	7314	H340: May cause genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
GHS52 - v1.0	7315	H341: Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
GHS22 - v1.0	7065	Carc. 1A
GHS22 - v1.0	7066	Carc. 1B
GHS22 - v1.0	7067	Carc. 2
GHS53 - v1.0	7316	H350: May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
GHS53 - v1.0	7317	H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routs of exposure cause the hazard>.
GHS24 - v1.0	7071	STOT Single Exp. 1

GHS24 - v1.0	7072	STOT Single Exp. 2
GHS24 - v1.0	7073	STOT Single Exp. 3
GHS55 - v1.0	7321	H370: Causes damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
GHS55 - v1.0	7322	H371: May cause damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
GHS55 - v1.0	7311	H335: May cause respiratory irritation.
GHS55 - v1.0	7312	H336: May cause drowsiness or dizziness.
GHS25 - v1.0	7075	STOT Rep. Exp. 1
GHS25 - v1.0	7076	STOT Rep. Exp. 2
GHS55b - v1.0	7323	H372: Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
GHS55b - v1.0	7324	H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
GHS63 - v3.0	7163	Unstable explosive
GHS63 - v3.0	7486	Expl. Div. 1.1
GHS63 - v3.0	7487	Expl. Div. 1.2
GHS63 - v3.0	7488	Expl. Div. 1.3
GHS63 - v3.0	7489	Expl. Div. 1.4

GHS63 - v3.0	7490	Expl. Div. 1.5
GHS63 - v3.0	7491	Expl. Div. 1.6
GHS63 - v3.0	7492	Flam. Gas 1
GHS63 - v3.0	7493	Flam. Gas 2
GHS63 - v3.0	7494	Aerosol 1
GHS63 - v3.0	7495	Aerosol 2
GHS63 - v3.0	7496	Oxid. Gas 1
GHS63 - v3.0	7497	Compressed gas
GHS63 - v3.0	7498	Liquefied gas
GHS63 - v3.0	7499	Refrigerated liquefied gas
GHS63 - v3.0	7500	Dissolved gas
GHS63 - v3.0	7159	Flam. Liquid 1
GHS63 - v3.0	7160	Flam. Liquid 2
GHS63 - v3.0	7161	Flam. Liquid 3
GHS63 - v3.0	7162	Flam. Liquid 4
GHS63 - v3.0	7501	Flam. Solid 1
GHS63 - v3.0	7502	Flam. Solid 2

GHS63 - v3.0	7503	Self React. Type A
GHS63 - v3.0	7504	Self React. Type B
GHS63 - v3.0	7505	Self React. Type C
GHS63 - v3.0	7506	Self React. Type D
GHS63 - v3.0	7507	Self React. Type E
GHS63 - v3.0	7508	Self React. Type F
GHS63 - v3.0	7509	Self React. Type G
GHS63 - v3.0	7510	Pyr. Liquid 1
GHS63 - v3.0	7511	Pyr. Solid 1
GHS63 - v3.0	7512	Self Heat. 1
GHS63 - v3.0	7513	Self Heat. 2
GHS63 - v3.0	7514	Water React. Flam. Gas 1
GHS63 - v3.0	7515	Water React. Flam. Gas 2
GHS63 - v3.0	7516	Water React. Flam. Gas 3
GHS63 - v3.0	7517	Oxid. Liquid 1
GHS63 - v3.0	7518	Oxid. Liquid 2
GHS63 - v3.0	7519	Oxid. Liquid 3

GHS63 - v3.0	7520	Oxid. Solid 1
GHS63 - v3.0	7521	Oxid. Solid 2
GHS63 - v3.0	7522	Oxid. Solid 3
GHS63 - v3.0	7523	Org. Perox. Type A
GHS63 - v3.0	7524	Org. Perox. Type B
GHS63 - v3.0	7525	Org. Perox. Type C
GHS63 - v3.0	7526	Org. Perox. Type D
GHS63 - v3.0	7527	Org. Perox. Type E
GHS63 - v3.0	7528	Org. Perox. Type F
GHS63 - v3.0	7529	Org. Perox. Type G
GHS63 - v3.0	7530	Met. Corr. 1
GHS63 - v3.0	7531	Acute Tox. 1
GHS63 - v3.0	7532	Acute Tox. 2
GHS63 - v3.0	7533	Acute Tox. 3
GHS63 - v3.0	7534	Acute Tox. 4
GHS63 - v3.0	7535	Acute Tox. 5
GHS63 - v3.0	61834	Skin Corr. 1

GHS63 - v3.0	7536	Skin Corr. 1A
GHS63 - v3.0	7537	Skin Corr. 1B
GHS63 - v3.0	7538	Skin Corr. 1C
GHS63 - v3.0	7539	Skin Irrit. 2
GHS63 - v3.0	7540	Skin Mild Irrit. 3
GHS63 - v3.0	7541	Eye Damage 1
GHS63 - v3.0	7542	Eye Irrit. 2A
GHS63 - v3.0	7543	Eye Irrit. 2B
GHS63 - v3.0	7544	Eye Irrit. 2
GHS63 - v3.0	7545	Resp. Sens. 1
GHS63 - v3.0	8287	Resp. Sens. 1A
GHS63 - v3.0	8288	Resp. Sens. 1B
GHS63 - v3.0	7546	Skin Sens. 1
GHS63 - v3.0	8289	Skin Sens. 1A
GHS63 - v3.0	8290	Skin Sens. 1B
GHS63 - v3.0	7547	Muta. 1A
GHS63 - v3.0	7548	Muta. 1B

GHS63 - v3.0	7549	Muta. 2
GHS63 - v3.0	7550	Carc. 1A
GHS63 - v3.0	7551	Carc. 1B
GHS63 - v3.0	7552	Carc. 2
GHS63 - v3.0	7553	Repr. 1A
GHS63 - v3.0	7554	Repr. 1B
GHS63 - v3.0	7555	Repr. 2
GHS63 - v3.0	7556	STOT Single Exp. 1
GHS63 - v3.0	7557	STOT Single Exp. 2
GHS63 - v3.0	7558	STOT SE3 / H335
GHS63 - v3.0	7559	STOT SE3 / H336
GHS63 - v3.0	7560	STOT Rep. Exp. 1
GHS63 - v3.0	7561	STOT Rep. Exp. 2
GHS63 - v3.0	7562	Asp. Tox. 1
GHS63 - v3.0	7563	Asp. Tox. 2
GHS63 - v3.0	7564	Aquatic Acute 1
GHS63 - v3.0	7565	Aquatic Acute 2

GHS63 - v3.0	7566	Aquatic Acute 3
GHS63 - v3.0	7567	Aquatic Chronic 1
GHS63 - v3.0	7568	Aquatic Chronic 2
GHS63 - v3.0	7569	Aquatic Chronic 3
GHS63 - v3.0	7570	Aquatic Chronic 4
GHS63 - v3.0	8292	Hazardous to the ozone layer 1
GHS63 - v3.0	8400	Flam. Gas 1, Chem. Unst. Gas A
GHS63 - v3.0	8401	Flam. Gas 1, Chem. Unst. Gas B
GHS63 - v3.0	8402	Flam. Gas 2, Chem. Unst. Gas A
GHS63 - v3.0	8403	Flam. Gas 2, Chem. Unst. Gas B
GHS63 - v3.0	62432	Flam. Gas 1, Pyr. Gas
GHS63 - v3.0	62433	Flam. Gas 2, Pyr. Gas
GHS63 - v3.0	8408	Aerosol 3
GHS63 - v3.0	61825	Des. Expl. 1
GHS63 - v3.0	61826	Des. Expl. 2
GHS63 - v3.0	61828	Des. Expl. 3
GHS63 - v3.0	61829	Des. Expl. 4

GHS70 - v1.0	7079	Aquatic Acute 1
GHS70 - v1.0	7080	Aquatic Acute 2
GHS70 - v1.0	7081	Aquatic Acute 3
GHS71 - v1.0	7325	H400: Very toxic to aquatic life.
GHS71 - v1.0	8210	H401: Toxic to aquatic life.
GHS71 - v1.0	8211	H402: Harmful to aquatic life.
GHS72 - v1.0	7082	Aquatic Chronic 1
GHS72 - v1.0	7083	Aquatic Chronic 2
GHS72 - v1.0	7084	Aquatic Chronic 3
GHS72 - v1.0	7085	Aquatic Chronic 4
GHS73 - v1.0	7326	H410: Very toxic to aquatic life with long lasting effects.
GHS73 - v1.0	7327	H411: Toxic to aquatic life with long lasting effects.
GHS73 - v1.0	7328	H412: Harmful to aquatic life with long lasting effects.
GHS73 - v1.0	7329	H413: May cause long lasting harmful effects to aquatic life.
TD500 - v1.0	8292	Hazardous to the ozone layer 1
TD510 - v1.0	8013	EUH059: Hazardous to the ozone layer.
TD510 - v1.0	8212	H420: Harms public health and the environment by destroying ozone in the upper atmosphere.

GHS29 - v1.0	7086	Danger
GHS29 - v1.0	7087	Warning
GHS29 - v1.0	7088	No signal word
DM02 - v1.0	8027	GHS01: exploding bomb
DM02 - v1.0	8028	GHS02: flame
DM02 - v1.0	8029	GHS03: flame over circle
DM02 - v1.0	8030	GHS04: gas cylinder
DM02 - v1.0	8031	GHS05: corrosion
DM02 - v1.0	8032	GHS06: skull and crossbones
DM02 - v1.0	8033	GHS07: exclamation mark
DM02 - v1.0	8034	GHS08: health hazard
DM02 - v1.0	8035	GHS09: environment
GHS65 - v3.0	7264	H200: Unstable explosives.
GHS65 - v3.0	7265	H201: Explosive; mass explosion hazard.
GHS65 - v3.0	7266	H202: Explosive, severe projection hazard.
GHS65 - v3.0	7267	H203: Explosive; fire, blast or projection hazard.
GHS65 - v3.0	7268	H204: Fire or projection hazard.

GHS65 - v3.0	7269	H205: May mass explode in fire.
GHS65 - v3.0	61830	H206: Fire, blast or projection hazard; increased risk of explosion if desensitizing agent is reduced.
GHS65 - v3.0	61831	H207: Fire or projection hazard; increased risk of explosion if desensitizing agent is reduced.
GHS65 - v3.0	61832	H208: Fire hazard; increased risk of explosion if desensitizing agent is reduced.
GHS65 - v3.0	7270	H220: Extremely flammable gas.
GHS65 - v3.0	7271	H221: Flammable gas.
GHS65 - v3.0	7272	H222 : Extremely flammable aerosol, H229 : Pressurised container: May burst if heated
GHS65 - v3.0	7273	H223 : Flammable aerosol, H229 : Pressurised container: May burst if heated
GHS65 - v3.0	7274	H224: Extremely flammable liquid and vapour.
GHS65 - v3.0	7275	H225: Highly flammable liquid and vapour.
GHS65 - v3.0	7276	H226: Flammable liquid and vapour.
GHS65 - v3.0	7277	H227: Combustible liquid.
GHS65 - v3.0	7278	H228: Flammable solid.
GHS65 - v3.0	8409	H229: Pressurised container: May burst if heated
GHS65 - v3.0	9104	H230: May react explosively even in the absence of air
GHS65 - v3.0	9105	H231: May react explosively even in the absence of air at elevated pressure and/or temperature
GHS65 - v3.0	62436	H232: May ignite spontaneously if exposed to air.

GHS65 - v3.0	7279	H240: Heating may cause an explosion.
GHS65 - v3.0	7280	H241: Heating may cause a fire or explosion.
GHS65 - v3.0	7281	H242: Heating may cause a fire.
GHS65 - v3.0	7282	H250: Catches fire spontaneously if exposed to air.
GHS65 - v3.0	7283	H251: Self-heating: may catch fire.
GHS65 - v3.0	7284	H252: Self-heating in large quantities; may catch fire.
GHS65 - v3.0	7285	H260: In contact with water releases flammable gases which may ignite spontaneously.
GHS65 - v3.0	7286	H261: In contact with water releases flammable gases.
GHS65 - v3.0	7287	H270: May cause or intensify fire; oxidiser.
GHS65 - v3.0	7288	H271: May cause fire or explosion; strong oxidiser.
GHS65 - v3.0	7289	H272: May intensify fire; oxidiser.
GHS65 - v3.0	7290	H280: Contains gas under pressure; may explode if heated.
GHS65 - v3.0	7291	H281: Contains refrigerated gas; may cause cryogenic burns or injury.
GHS65 - v3.0	7292	H290: May be corrosive to metals.
GHS65 - v3.0	7293	H300: Fatal if swallowed.
GHS65 - v3.0	7294	H301: Toxic if swallowed.
GHS65 - v3.0	7295	H302: Harmful if swallowed.

GHS65 - v3.0	8208	H303: May be harmful if swallowed.
GHS65 - v3.0	7309	H304: May be fatal if swallowed and enters airways.
GHS65 - v3.0	7310	H305: May be harmful if swallowed and enters airways.
GHS65 - v3.0	7296	H310: Fatal in contact with skin.
GHS65 - v3.0	7297	H311: Toxic in contact with skin.
GHS65 - v3.0	7298	H312: Harmful in contact with skin.
GHS65 - v3.0	8209	H313: May be harmful in contact with skin.
GHS65 - v3.0	7299	H314: Causes severe skin burns and eye damage.
GHS65 - v3.0	7300	H315: Causes skin irritation.
GHS65 - v3.0	7301	H316: Causes mild skin irritation.
GHS65 - v3.0	7305	H317: May cause an allergic skin reaction.
GHS65 - v3.0	7302	H318: Causes serious eye damage.
GHS65 - v3.0	7303	H319: Causes serious eye irritation.
GHS65 - v3.0	7304	H320: Causes eye irritation.
GHS65 - v3.0	7306	H330: Fatal if inhaled.
GHS65 - v3.0	7307	H331: Toxic if inhaled.
GHS65 - v3.0	7308	H332: Harmful if inhaled.

GHS65 - v3.0	7313	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
GHS65 - v3.0	7311	H335: May cause respiratory irritation.
GHS65 - v3.0	7312	H336: May cause drowsiness or dizziness.
GHS65 - v3.0	7314	H340: May cause genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
GHS65 - v3.0	7315	H341: Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
GHS65 - v3.0	7316	H350: May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
GHS65 - v3.0	7317	H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routs of exposure cause the hazard>.
GHS65 - v3.0	7318	H360: May damage fertility or the unborn child <state specific effect if known > <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
GHS65 - v3.0	7319	H361: Suspected of damaging fertility or the unborn child <state specific effect if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
GHS65 - v3.0	7320	H362: May cause harm to breast-fed children.
GHS65 - v3.0	7321	H370: Causes damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
GHS65 - v3.0	7322	H371: May cause damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
GHS65 - v3.0	7323	H372: Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

GHS65 - v3.0	7324	H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
GHS65 - v3.0	7325	H400: Very toxic to aquatic life.
GHS65 - v3.0	8210	H401: Toxic to aquatic life.
GHS65 - v3.0	8211	H402: Harmful to aquatic life.
GHS65 - v3.0	7326	H410: Very toxic to aquatic life with long lasting effects.
GHS65 - v3.0	7327	H411: Toxic to aquatic life with long lasting effects.
GHS65 - v3.0	7328	H412: Harmful to aquatic life with long lasting effects.
GHS65 - v3.0	7329	H413: May cause long lasting harmful effects to aquatic life.
GHS65 - v3.0	8212	H420: Harms public health and the environment by destroying ozone in the upper atmosphere.
GHS65 - v3.0	8215	H300+H310: Fatal if swallowed or in contact with skin.
GHS65 - v3.0	8216	H300+H330: Fatal if swallowed or if inhaled.
GHS65 - v3.0	8217	H310+H330: Fatal in contact with skin or if inhaled.
GHS65 - v3.0	8218	H300+H310+H330: Fatal if swallowed, in contact with skin or if inhaled.
GHS65 - v3.0	8219	H301+H311: Toxic if swallowed or in contact with skin.
GHS65 - v3.0	8220	H301+H331: Toxic if swallowed or if inhaled.
GHS65 - v3.0	8221	H311+H331: Toxic in contact with skin or if inhaled.

GHS65 - v3.0	8222	H301+H311+H331: Toxic if swallowed, in contact with skin or if inhaled.
GHS65 - v3.0	8223	H302+H312: Harmful if swallowed or in contact with skin.
GHS65 - v3.0	8224	H302+H332: Harmful if swallowed or if inhaled.
GHS65 - v3.0	8225	H312+H332: Harmful in contact with skin or if inhaled.
GHS65 - v3.0	8226	H302+H312+H332: Harmful if swallowed, in contact with skin or if inhaled.
GHS65 - v3.0	8227	H303+H313: May be harmful if swallowed or in contact with skin.
GHS65 - v3.0	8228	H303+H333: May be harmful if swallowed or if inhaled.
GHS65 - v3.0	8229	H313+H333: May be harmful in contact with skin or if inhaled.
GHS65 - v3.0	8230	H303+H313+H333: May be harmful if swallowed, in contact with skin or if inhaled.
GHS65 - v3.0	8231	H315+H320: Causes skin and eye irritation.
GHS65 - v3.0	8293	No hazard statement
GHS66 - v2.1	7330	P101: If medical advice is needed, have product container or label at hand.
GHS66 - v2.1	7331	P102: Keep out of reach of children.
GHS66 - v2.1	7332	P103: Read label before use.
GHS66 - v2.1	7333	P201: Obtain special instructions before use.
GHS66 - v2.1	7334	P202: Do not handle until all safety precautions have been read and understood.
GHS66 - v2.1	7335	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

GHS66 - v2.1	7336	P211: Do not spray on an open flame or other ignition source.
GHS66 - v2.1	61835	P212: Avoid heating under confinement or reduction of the desensitizing agent.
GHS66 - v2.1	7337	P220: Keep away from clothing or other combustible materials.
GHS66 - v2.1	7338	P221: Take any precaution to avoid mixing with combustibles...
GHS66 - v2.1	7339	P222: Do not allow contact with air.
GHS66 - v2.1	7340	P223: Do not allow contact with water.
GHS66 - v2.1	7341	P230: Keep wetted with... ...Manufacturer/supplier or the competent authority to specify appropriate material.
GHS66 - v2.1	7342	P231: Handle and store contents under inert gas/…
GHS66 - v2.1	7343	P232: Protect from moisture.
GHS66 - v2.1	7344	P233: Keep container tightly closed.
GHS66 - v2.1	7345	P234: Keep only in original packaging.
GHS66 - v2.1	7346	P235: Keep cool.
GHS66 - v2.1	7347	P240: Ground and bond container and receiving equipment.
GHS66 - v2.1	7348	P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.
GHS66 - v2.1	7349	P242: Use non-sparking tools.
GHS66 - v2.1	7350	P243: Take actions to pevent static discharges.
GHS66 - v2.1	7351	P244: Keep valves and fittings free from oil and grease.

GHS66 - v2.1	7352	P250: Do not subject to grinding/shock/friction/…
GHS66 - v2.1	7353	P251: Do not pierce or burn, even after use.
GHS66 - v2.1	7354	P260: Do not breathe dust/fume/gas/mist/vapours/spray.
GHS66 - v2.1	7355	P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
GHS66 - v2.1	7356	P262: Do not get in eyes, on skin, or on clothing.
GHS66 - v2.1	7357	P263: Avoid contact during pregnancy and while nursing.
GHS66 - v2.1	7358	P264: Wash ... thoroughly after handling.
GHS66 - v2.1	7359	P270: Do no eat, drink or smoke when using this product.
GHS66 - v2.1	7360	P271: Use only outdoors or in a well-ventilated area.
GHS66 - v2.1	7361	P272: Contaminated work clothing should not be allowed out of the workplace.
GHS66 - v2.1	7362	P273: Avoid release to the environment.
GHS66 - v2.1	7363	P280: Wear protective gloves/protective clothing/eye protection/face protection.
GHS66 - v2.1	7364	P281: Use personal protective equipment as required.
GHS66 - v2.1	7365	P282: Wear cold insulating gloves and either face shield or eye protection.
GHS66 - v2.1	7366	P283: Wear fire resistant or flame retardant clothing.
GHS66 - v2.1	7367	P284: [In case of inadequate ventilation] wear respiratory protection.
GHS66 - v2.1	7368	P285: In case of inadequate ventilation wear respiratory protection.

GHS66 - v2.1	7369	P231+P232: Handle and store contents under inert gas/… . Protect from moisture.
GHS66 - v2.1	7370	P235+P410: Keep cool. Protect from sunlight.
GHS66 - v2.1	7371	P301: IF SWALLOWED:
GHS66 - v2.1	7372	P302: IF ON SKIN:
GHS66 - v2.1	7373	P303: IF ON SKIN (or hair):
GHS66 - v2.1	7374	P304: IF INHALED:
GHS66 - v2.1	7375	P305: IF IN EYES:
GHS66 - v2.1	7376	P306: IF ON CLOTHING:
GHS66 - v2.1	7377	P307: IF exposed:
GHS66 - v2.1	7378	P308: IF exposed or concerned:
GHS66 - v2.1	7379	P309: IF exposed or if you feel unwell:
GHS66 - v2.1	7380	P310: Immediately call a POISON CENTER/doctor/…
GHS66 - v2.1	7381	P311: Call a POISON CENTER/doctor/…
GHS66 - v2.1	7382	P312: Call a POISON CENTER/doctor/.../if you feel unwell.
GHS66 - v2.1	7383	P313: Get medical advice/attention.
GHS66 - v2.1	7384	P314: Get medical advice/attention if you feel unwell.
GHS66 - v2.1	7385	P315: Get immediate medical advice/attention.

GHS66 - v2.1	7386	P320: Specific treatment is urgent (see ... on this label).
GHS66 - v2.1	7387	P321: Specific treatment (see ... on this label).
GHS66 - v2.1	7388	P322: Specific measures (see ... on this label).
GHS66 - v2.1	7389	P330: Rinse mouth.
GHS66 - v2.1	7390	P331: Do NOT induce vomiting.
GHS66 - v2.1	7391	P332: If skin irritation occurs:
GHS66 - v2.1	7392	P333: If skin irritation or rash occurs:
GHS66 - v2.1	7393	P334: Immerse in cool water [or wrap in wet bandages].
GHS66 - v2.1	7394	P335: Brush off loose particles from skin.
GHS66 - v2.1	7395	P336: Thaw frosted parts with lukewarm water. Do no rub affected area.
GHS66 - v2.1	7396	P337: If eye irritation persists:
GHS66 - v2.1	7397	P338: Remove contact lenses, if present and easy to do. Continue rinsing.
GHS66 - v2.1	7398	P340: Remove person to fresh air and keep comfortable for breathing.
GHS66 - v2.1	7399	P341: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
GHS66 - v2.1	7400	P342: If experiencing respiratory symptoms:
GHS66 - v2.1	7401	P350: Gently wash with plenty of soap and water.
GHS66 - v2.1	7402	P351: Rinse cautiously with water for several minutes.

GHS66 - v2.1	7403	P352: Wash with plenty of water/…
GHS66 - v2.1	7404	P353: Rinse skin with water [or shower].
GHS66 - v2.1	7405	P360: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
GHS66 - v2.1	7406	P361: Take off immediately all contaminated clothing.
GHS66 - v2.1	8233	P362: Take off contaminated clothing.
GHS66 - v2.1	7407	P363: Wash contaminated clothing before reuse.
GHS66 - v2.1	7408	P370: In case of fire:
GHS66 - v2.1	7409	P371: In case of major fire and large quantities:
GHS66 - v2.1	7410	P372: Explosion risk.
GHS66 - v2.1	7411	P373: DO NOT fight fire when fire reaches explosives.
GHS66 - v2.1	7412	P374: Fight fire with normal precautions from a reasonable distance.
GHS66 - v2.1	7413	P375: Fight fire remotely due to the risk of explosion.
GHS66 - v2.1	7414	P376: Stop leak if safe to do so.
GHS66 - v2.1	7415	P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
GHS66 - v2.1	7416	P378: Use... to extinguish.
GHS66 - v2.1	7417	P380: Evacuate area.
GHS66 - v2.1	7418	P381: In case of leakage eliminate all ignition sources.

GHS66 - v2.1	7419	P390: Absorb spillage to prevent material damage.
GHS66 - v2.1	7420	P391: Collect spillage.
GHS66 - v2.1	7421	P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/…
GHS66 - v2.1	7422	P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell.
GHS66 - v2.1	7424	P302+P334: IF ON SKIN: Immerse in cool water [or wrap in wet bandages].
GHS66 - v2.1	7426	P302+P352: IF ON SKIN: Wash with plenty of water/…
GHS66 - v2.1	7428	P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
GHS66 - v2.1	7429	P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
GHS66 - v2.1	7430	P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
GHS66 - v2.1	7432	P306+P360: IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
GHS66 - v2.1	7433	P307+P311: IF exposed: Call a POISON CENTER or doctor/physician.
GHS66 - v2.1	7434	P308+P313: IF exposed or concerned: Get medical advice/attention.
GHS66 - v2.1	7435	P309+P311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
GHS66 - v2.1	7436	P332+P313: If skin irritation occurs: Get medical advice/attention.
GHS66 - v2.1	7437	P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
GHS66 - v2.1	61837	P336+P315: Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.

GHS66 - v2.1	7439	P337+P313: If eye irritation persists: Get medical advice/attention.
GHS66 - v2.1	7440	P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor/…
GHS66 - v2.1	7441	P370+P376: In case of fire: Stop leak if safe to do so.
GHS66 - v2.1	7442	P370+P378: In case of fire: Use... to extinguish.
GHS66 - v2.1	7443	P370+P380: In case of fire: Evacuate area.
GHS66 - v2.1	7423	P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
GHS66 - v2.1	7438	P302+P335+P334: IF ON SKIN: Brush off loose particles from skin. Immerse in cool water [or wrap in wet bandages].
GHS66 - v2.1	7427	P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
GHS66 - v2.1	7431	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
GHS66 - v2.1	7444	P370+P380+P375: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
GHS66 - v2.1	7445	P371+P380+P375: In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
GHS66 - v2.1	61839	P370+P372+P380+P373: In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.
GHS66 - v2.1	61841	P370+P380+P375+[P378]: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. [Use ... to extinguish].
GHS66 - v2.1	7446	P401: Store in accordance with ... …Manufacturer/supplier or the competent authority to specify local/regional/ national/international regulations as applicable.
GHS66 - v2.1	7447	P402: Store in a dry place.

GHS66 - v2.1	7448	P403: Store in a well-ventilated place.
GHS66 - v2.1	7449	P404: Store in a closed container.
GHS66 - v2.1	7450	P405: Store locked up.
GHS66 - v2.1	7451	P406: Store in a corrosion resistant/... container with a resistant inner liner.
GHS66 - v2.1	7452	P407: Maintain air gap between stacks or pallets.
GHS66 - v2.1	7453	P410: Protect from sunlight.
GHS66 - v2.1	7454	P411: Store at temperatures not exceeding ...°C/...°F.
GHS66 - v2.1	7455	P412: Do not expose at temperatures exceeding 50°C/ 122°F.
GHS66 - v2.1	7456	P413: Store bulk masses greater than ... kg/... lbs at temperatures not exceeding ...°C/...°F.
GHS66 - v2.1	7457	P420: Store separately.
GHS66 - v2.1	7458	P422: Store contents under ...
GHS66 - v2.1	7459	P402+P404: Store in a dry place. Store in a closed container.
GHS66 - v2.1	7460	P403+P233: Store in a well-ventilated place. Keep container tightly closed.
GHS66 - v2.1	7461	P403+P235: Store in a well-ventilated place. Keep cool.
GHS66 - v2.1	7462	P410+P403: Protect from sunlight. Store in a well-ventilated place.
GHS66 - v2.1	7463	P410+P412: Protect from sunlight. Do no expose to temperatures exceeding 50°C/ 122°F.
GHS66 - v2.1	7464	P411+P235: Store at temperatures not exceeding ...°C/...°F. Keep cool.

GHS66 - v2.1	7465	P501: Dispose of contents/container to ... …in accordance with local/regional/national /international regulations (to be specified). Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.
GHS66 - v2.1	8234	P502: Refer to manufacturer or supplier for information on recovery or recycling.
GHS66 - v2.1	8410	P364: And wash it before reuse.
GHS66 - v2.1	8413	P308+P311: IF exposed or concerned: Call a POISON CENTER/doctor/…
GHS66 - v2.1	8411	P361+P364: Take off immediately all contaminated clothing and wash it before reuse.
GHS66 - v2.1	8412	P362+P364: Take off contaminated clothing and wash it before reuse.
GHS66 - v2.1	7425	P302+P350: IF ON SKIN: Gently wash with plenty of soap and water.
EUGHS1 - v2.0	8001	EUH001: Explosive when dry.
EUGHS1 - v2.0	8002	EUH006: Explosive with or without contact with air.
EUGHS1 - v2.0	8003	EUH014: Reacts violently with water.
EUGHS1 - v2.0	8004	EUH018: In use, may form flammable/explosive vapour-air mixture.
EUGHS1 - v2.0	8005	EUH019: May form explosive peroxides.
EUGHS1 - v2.0	8007	EUH029: Contact with water liberates toxic gas.
EUGHS1 - v2.0	8008	EUH031: Contact with acids liberates toxic gas.

EUGHS1 - v2.0	8009	EUH032: Contact with acids liberates very toxic gas.
EUGHS1 - v2.0	8006	EUH044: Risk of explosion if heated under confinement.
EUGHS1 - v2.0	8013	EUH059: Hazardous to the ozone layer.
EUGHS1 - v2.0	8010	EUH066: Repeated exposure may cause skin dryness or cracking.
EUGHS1 - v2.0	8011	EUH070: Toxic by eye contact.
EUGHS1 - v2.0	8012	EUH071: Corrosive to the respiratory tract.
EUGHS1 - v2.0	8014	EUH201: Contains lead. Should not be used on surfaces liable to be chewed or sucked by children.
EUGHS1 - v2.0	8015	EUH201A: Warning! Contains lead.
EUGHS1 - v2.0	8016	EUH202: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
EUGHS1 - v2.0	8017	EUH203: Contains chromium (VI). May produce an allergic reaction.
EUGHS1 - v2.0	8018	EUH204: Contains isocyanates. May produce an allergic reaction.
EUGHS1 - v2.0	8019	EUH205: Contains epoxy constituents. May produce an allergic reaction.
EUGHS1 - v2.0	8020	EUH206: Warning! Do not use together with other products. May release dangerous gases (chlorine).

EUGHS1 - v2.0	8021	EUH207: Warning! Contains cadmium. Dangerous fumes are formed during use. See information supplied by the manufacturer. Comply with the safety instructions.
EUGHS1 - v2.0	8022	EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.
EUGHS1 - v2.0	8023	EUH209: Can become highly flammable in use.
EUGHS1 - v2.0	8024	EUH209A: Can become flammable in use.
EUGHS1 - v2.0	8025	EUH210: Safety data sheet available on request.
EUGHS1 - v2.0	8026	EUH401: To avoid risks to human health and the environment, comply with the instructions for use.
EUGHS1 - v2.0	62437	AUH001: Explosive when dry
EUGHS1 - v2.0	62438	AUH006: Explosive with or without contact with air
EUGHS1 - v2.0	62439	AUH014: Reacts violently with water
EUGHS1 - v2.0	62440	AUH018: In use, may form flammable/explosive vapour-air mixture
EUGHS1 - v2.0	62441	AUH019: May form explosive peroxides
EUGHS1 - v2.0	62442	AUH044: Risk of explosion if heated under confinement
EUGHS1 - v2.0	62443	AUH029: Contact with water liberates toxic gas

EUGHS1 - v2.0	62444	AUH031: Contact with acids liberates toxic gas
EUGHS1 - v2.0	62445	AUH032: Contact with acids liberates very toxic gas
EUGHS1 - v2.0	62446	AUH066: Repeated exposure may cause skin dryness or cracking
EUGHS1 - v2.0	62447	AUH070: Toxic by eye contact
EUGHS1 - v2.0	62448	AUH071: Corrosive to the respiratory tract

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