

# Product Stewardship - EHS concepts: Data Model - (to be updated)

Within EHS module, there are different " **specifications** " that will enable you to author your documents.


A **specification** is a " **data object** " for mapping products, agents, **packaging**, waste code and dangerous goods classifications in the SAP component Environment, Health and Safety (EH&S). It uses **identifiers** and **value assignments** such as physical and chemical properties, medical advice, and details on transport and storage.  
 There are different "**specification types**", each of them is described with a specific **SAP EHS code** . A specification can pass on data to one or more other specifications by inheritance - see flow charts below.

| Specification Starts with: | Specification Type | Description  |
|----------------------------|--------------------|--|
| UN*                        | LS_UN_SUB          | Maintains CLEO DG data for UN number   |
| 0*                         | DG_CL_SUB          | DG Specifications: use LS_UN_SUB for each regulation plus more data                |
| 1*                         | PURE_SUB           | CAS Level Substance, inherit from LIST_SUB + plus more data                        |
| 2*                         | LIST_SUB           | Maintains CLEO data for CAS, pass to PURE_SUB                                      |
| 4*                         | CONT_SCEN          | Contributing Scenario for REACH regulation (Annex eSDS)                            |
| 5*                         | PROD_COM           | Manual: Rhodia BU, Intermediates, ALL, Raw Materials                               |
| 6*                         | REAL_GRP           | Real Group Master  |
| 7*                         | ZCERT_ADDR         | Certificate related to Regulatory statement (Food contact, CMR classification,...) |
| 8*                         | REAL_SUB_E         | Real substance external (Specification related to Raw materials by supplier)       |
| PRCO*                      | PROD_COM           | Legacy Rhodia  |
| P0*                        | PROD_COM           | Legacy Solvay  |

## Products

### PROD\_COM - Commercial product

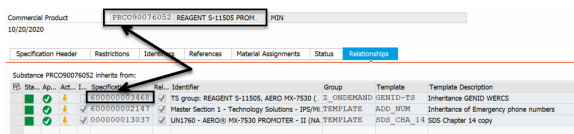
- It concerns all the products manufactured by **Solvay (to updated)** or by suppliers. They can be raw materials, intermediate products or finished products as well as R&D products.
- Each Substance or Mixture holds a composition and for Solvay finished products, it also contains all the data needed to author a SDS.
- A **PROD\_COM** specification code starts by PRCO900.... , P0000... or P0X00... .
  - Products that begin with PRCO are legacy Rhodia products;
  - Products that begin with P0000 or P0X00 are legacy Solvay products;
  - A R&D Prod\_Com specification code starts by 50000...

 **Training Materials**

>> Refer to the page **Inheritance concept / Family of products** available in **SDS Authoring > 1. SDS Key concepts**.


### REAL\_GRP - Real substance group

- This specification is used to represent families of products/substances with a number of common properties.
- A **REAL\_GRP** specification code starts by 60000...



### PURE\_SUB - Pure Substance

- It concerns the pure substances, that is to say the ingredients entering the composition of a product. They have chemical, toxicological and ecotoxicological properties. They also contain

 **PURE\_SUB and LIST\_SUB** are not manufactured, traded, or purchased.

regulated information, inherited from the **LIST\_SUB** (see hereafter). They constitute the finest level of the composition and as such, they do not hold a composition (unless exception - i.e. UVCB or reaction mass substances).

- A **PURE\_SUB** specification code starts by 100000....
- Only **EHS administration** can edit such specifications, but anyone can display information on any **PURE\_SUB**.

## LIST\_SUB - Listed substance

- It concerns regulated substances, as for example those regulated by **Annex VI of CLP regulation**. They enable to store regulated data provided by the Regulatory database provider **Verisk 3E**.
- A **LIST\_SUB** code specification code starts by 200000....
- Only **EHS administration** can edit such specifications, but anyone can display information on any **PURE\_SUB**.

| Specification | AuthGroup | CAS number | Internal name | Product na | Supplier | Synonym | Product life cycle | Spec | Status | Desc. specific | type             | Structu |
|---------------|-----------|------------|---------------|------------|----------|---------|--------------------|------|--------|----------------|------------------|---------|
| 100000000587  | ML        | 7732-18-5  | Water         |            | water    |         |                    |      |        |                | Pure substance   |         |
| 200000001511  | ML        | 7732-18-5  | Water         |            | water    |         |                    |      |        |                | Listed substance |         |

| Specification Header                  | Restrictions                        | Identifiers                         | References                          | Material Assignments | Status              | Relationships |
|---------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------------------|---------------------|---------------|
| Substance 100000000587 inherits from: |                                     |                                     |                                     |                      |                     |               |
| St...                                 | Ap...                               | Act...                              | I...                                | Specification        | Rel... Identifier   |               |
| <input checked="" type="checkbox"/>   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 200000001511         | 7732-18-5 (NUM;CAS) |               |

**Link of interest**

- [Pure Substances](#) in SAP EHS

## CONT\_SCEN - Contributing Scenario

- Specification used to manage **Exposure Scenarios (ES)** in SAP.
- It contains the data related to a "descriptor" (ERC, PROC\* or PC). It represents only one Category – either Environment, or Human Health.
- Normally, there should be one **CONT\_SCEN** for each ERC or PROC/PC, but it is possible to group many descriptors, only if they belong to the same category (Environment or Human health).
- On the opposite, it is also possible to switch a descriptor in 2 parts, for example if data are different according to the physical state.
- The **CONT\_SCEN** specification number starts with "4000...": 400000000000 – 499999999999

## Exposure Scenario

An Exposure Scenario describes how the exposure of humans and the environment to the substance can be controlled to ensure its safe use. It refers to an identified use, or group of similar identified uses, such as formulation, processing or production of an article.

Aggregation of Contributing Scenario specification ("4000...") - beginning with the descriptor ERC.

Dangerous goods classification: 000000011155 UN1987 - AERO® 5100 Pr. 1987  
 10/20/2020 **DG CL SUB**

| Specification Header                  | Restrictions             | Identifiers              | References               | Material Assignments | Status            | Relationships |
|---------------------------------------|--------------------------|--------------------------|--------------------------|----------------------|-------------------|---------------|
| Substance 000000011155 inherits from: |                          |                          |                          |                      |                   |               |
| St...                                 | Ap...                    | Act...                   | I...                     | Specification        | Rel... Identifier |               |
| <input type="checkbox"/>              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                      |                   |               |
| <input type="checkbox"/>              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                      |                   |               |
| <input type="checkbox"/>              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |                      |                   |               |

Entry 0 / 0

Substance 000000011155 passes on to:

| St...                               | Ap...                               | Act...                              | I...                                | Specification | Rel... Identifier                | Group    | Template   | Template Desc.      |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------|----------------------------------|----------|------------|---------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | PRCO90072799  | AERO® 5100 PROMOTER (NAM;PROD)   | TEMPLATE | SDS_CHA_14 | SDS Chapter 14 copy |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | PRCO90080883  | AERO® 8151CN PROMOTER (NAM;PROD) | TEMPLATE | SDS_CHA_14 | SDS Chapter 14 copy |

## Dangerous Goods



## Training Materials

>> Refer to the page [Dangerous Goods](#) for more detailed information

## DG\_CL\_SUB - Dangerous goods classification

- They enable to manage Dangerous Goods information.
- A **DG\_CL\_SUB** specification code starts by 0000...
- Only **DG administration** and **DG contacts** can edit such specifications.

## LS\_UN\_SUB\* - UN listed substance

- It concerns regulated UN substances. They enable to store regulated data provided by the Regulatory database provider **Verisk 3e**.
- A **LS\_UN\_SUB** specification code starts by 0000...
- Only **DG administration** can edit such specifications.
- One **DG\_CL\_SUB** can send its information to more than 1 PROD\_COM, for example, for products within a same families, or for products with similar compositions.
- One **LS\_UN\_SUB** can send its information to more than one DG\_CL\_SUB. For example, the LS\_UN\_SUB UN1987\_01 is used by many DG\_CL\_SUB, which differ because of the contributing hazardous ingredient(s) (hazard inducers) or the packing group.

Commercial Product: PRCO90072797 CYASORB® UV-2908 LIG. AT

Key date: 10/30/2020

Val. Ass.: Use and Exposure Scenario

Sequence: 1

Value Assignments | **Spec. Listing** | Usage | Sources | Assessment | User-Def. Texts/Docs

| S                        | Sort | Spec.        | Identifier | Entry   |
|--------------------------|------|--------------|------------|---|
| <input type="checkbox"/> | 1    | 400000011076 |            | 3,5-Di-(t-Butyl)-4-hydroxy benzoic acid, hexadecyl ester - For. |
| <input type="checkbox"/> | 2    | 400000007575 |            | 3,5-Di-(t-Butyl)-4-hydroxy benzoic acid, hexadecyl ester - For. |
| <input type="checkbox"/> | 3    | 400000007576 |            | 3,5-Di-(t-Butyl)-4-hydroxy benzoic acid, hexadecyl ester - For. |
| <input type="checkbox"/> | 4    | 400000007577 |            | 3,5-Di-(t-Butyl)-4-hydroxy benzoic acid, hexadecyl ester - For. |
| <input type="checkbox"/> | 5    | 400000007578 |            | 3,5-Di-(t-Butyl)-4-hydroxy benzoic acid, hexadecyl ester - For. |
| <input type="checkbox"/> | 6    | 400000007579 |            | 3,5-Di-(t-Butyl)-4-hydroxy benzoic acid, hexadecyl ester - For. |

More questions? Contact EH&S and Substance Team.