

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...

Commercial Product
10/20/2020

Specification Header Restrictions Identifiers References Material Assignments Status Relationships

Substance PRCO90076152 inherits from:

Id	Sta	Ad	Id	Specification	Ident	Group	Template	Template Description
✓				600000001127	✓	TS group: REAGENT S-11508, AERO MX-7530 (S_OBEREND	GENID-TS	Inheritance GENID WERCS
✓				600000002197	✓	Master Section 1 - Technology Solutions - IPS/M TEMPLATE	ADD_NOM	Inheritance of Emergency phone numbers
✓				6000000013937	✓	UNCL760 - AEROX 9 MX-7530 PROMOTER - 12 (NA) TEMPLATE	SDS_CH04_14	SDS Chapter 14 copy

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	Structure
100000000587	MLL	7732-18-5	Water		water					Pure substance	
200000001511	MLL	7732-18-5	Water		water					Listed substance	

Pure substance	10/20/2020	000000000587	7732-18-5	Water	NOT ALLOCATED
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Specification Header	Restrictions	Identifiers	References	Material Assignments	Status	Relationships
Substance 100000000587 inherits from:						
St...	Ap...	Act...	I...	Specification	Rel... Identifier	Group
☒	☒	☒	☒	2000000001511	7732-18-5 (NUM;CAS)	TEMPLATE

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	Group
☒	☒	☒	☒			
☒	☒	☒	☒			
☒	☒	☒	☒			

Substance 000000011155 passes on to:						
St...	Ap...	Act...	I...	Specification	Rel... Identifier	Group
☒	☒	☒	☒	PRCO90072799	AERO® 5100 PROMOTER (NAM;PROD)	TEMPLATE
☒	☒	☒	☒	PRCO90080883	AERO® 8151CN PROMOTER (NAM;PROD)	TEMPLATE

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	1 / 6
☐	1	400000011076		3,5-Di-(t-Butyl)-4-hydroxy benzoic acid, hexadecyl ester - For.	
☐	2	400000007575		3,5-Di-(t-Butyl)-4-hydroxy benzoic acid, hexadecyl ester - For.	
☐	3	400000007576		3,5-Di-(t-Butyl)-4-hydroxy benzoic acid, hexadecyl ester - For.	
☐	4	400000007577		3,5-Di-(t-Butyl)-4-hydroxy benzoic acid, hexadecyl ester - For.	
☐	5	400000007578		3,5-Di-(t-Butyl)-4-hydroxy benzoic acid, hexadecyl ester - For.	
☐	6	400000007579		3,5-Di-(t-Butyl)-4-hydroxy benzoic acid, hexadecyl ester - For.	

More questions? Contact EH&S and Substance Team.