What’s new in ERC 1705?

New developments and enhancements in SAP EHS Regulatory Content
May 2017
Agenda

General News on SAP EHS Regulatory Content

• Product Overview
• Short Summary of 1705 Delivery

Business Requirements (covered with ERC 1705)

• Global
• EMEA
• Americas
• APJ
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General New on ....

SAP EHS Regulatory Content

- Reliable and Cost-effective Path to Global Compliance
Product Overview

SAP EHS Regulatory Content

Creation of globally consistent and compliant safety data sheets (SDS) due to

• consistent regulatory content packages designed for and integrated with SAP Environment, Health and Safety Solution
• regular consolidated updates to comply with rapidly changing global requirements
• extensive and accurate interpretation of regulations from SAP’s global EHS regulatory experts
• continuous product extensions based on new and updated global requirements and intensive customer exchange to identify best practice approaches

Currently supporting SDS creation for more than 110 countries worldwide
Delivery ERC 1705: Business Requirements Overview

50 Business Requirements in total:

20 Business Requirements – Global
   17 BR to improve and enhance global SDS compliance
   3 BR to improve and enhance Transport Classification

16 Business Requirements – EMEA

9 Business Requirements – Americas

5 Business Requirements – APJ

Additional improvements and enhancement from Maintenance and/or Bug Fixing
Properties and Characteristics

- 1 new property within one new node
- 5 existing properties enhanced from value assignment category B (Spec. Listing) to C (Composition)
- 6 new characteristics added to 3 existing properties
- 10 existing characteristics renamed

Phrase Libraries

- More than 450 new phrases, including 158 new ESCom phrases
- More than 5300 updated phrase positions
- More than 8400 new phrase set assignments, including 555 for ESCom phrases
Delivery ERC 1705: Technical Overview

Substance Lists and Reference Data
- 9 new regulatory lists (including 1 Marketability and 1 Dangerous Goods list), 1 retired list
- More than 60 regulatory list updates (since ERC release 1702)
- Addition of more than 450 new substance and more than 17,000 additional assignments of substances to groups

Expert Rules
- 4 new rules were added
- Update/revision of existing GHS and HazComp rules
- In total more than 60 expert rules were revised (about 50 %)

Templates
- Adaptation/modification/actualization of a huge number of already existing main templates and includes
- Integration of new function modules provided via SAP Note 2345518
Global

Business Requirements covered with Release 1705
Business Requirements - Global

Improvement of GHS Hazard Inducer Logic
- Introduction of an additional switch filling up Hazard Inducers lists for GHS EU, TR and CN

Suppression logic for desensitized explosive based on revision 6 Purple Book
- Inclusion of suppression logic in GHS expert rules

Disclosure of exact values in section 3 globally
- Adaptation of HazComp rules
- Adaptation of template includes

Disclosure of full non-route-specific human exposure data in section 11
- Addition of two new characteristics to the general property
- Assignment of existing phrases to new characteristics
- Extension of template include for section 11
Disclosure of particle size distribution in section 9
- Enhancement of property “Particle Size Distribution”
- Creation and translation of new sub-header phrases
- Adaptation of section 9 template include

Differentiation of "Environmental Exposure Controls” in section 6 and 8
- Renaming of four characteristics in property “Environmental Precaution”
- Adaptation of property help text

Improvement of NotStat rule logic to consider impurities in China and Taiwan
- Extension of rule set logic take also component type “Impurity” into account

Change of phrase mapping for regulatory basis of GWP rule
- Adaptation of regulatory basis for rule set
Business Requirements - Global

Preparation of consistent disclosure of trade secret names

- Change of selected properties from “Specification listing” to “Composition”
- Adaptation of expert rules (Spill Reporting, all HazComp, some RegInfos)

Implementation of language independent identifier

- Provision of English identifier in case no specific one is found

Output harmonization of “Other Hazards (GHS)” and “Possible Hazards”

- Re-assignment of still required phrases to “Other Hazards (GHS)”
- Adaptation of template includes globally (except non-GHS Canada)

Update of Product Safety relevant regulatory lists

- Update of more than 60 regulatory lists
Collection and disclosure of OEL abbreviations for section 16*
   Adaptation of section 8 and 16 template includes globally

Revision of proper shipping name display for IMDG*
   Adaptation of section 14 templates includes globally

Index extensions of H statements in section 16*
   Adaptation of section 16 template includes for EMEA

Enlargement of bullet point for HazChem Code*
   Adaptation of section 5 and 14 displaying HazChem Code for AU, MY and NZ

Replacement of placeholder by storage temperature within a phrase*
   Provision of customer documentation concerning phrase changes and needed customization

* Prerequisite: Implementation of SAP Note 2345518
Business Requirements – Global DG

Update of Dangerous Goods relevant regulatory lists

- Update of Australian Dangerous Good Code as well as IMDG
- ANTT Brazil – replacement of former regulation by new one

Support of segregation group assignment

- Addition of entries for IMDG segregation groups

Extension of DG rule logic to specify Hazardous Inducer for Marine Pollutants

- Rule set improvement considering GHS classification, respectively the M-factor
EMEA

Business Requirements covered with Release 1705
Business Requirements - EMEA

Implementation of 8th / 9th ATP of European CLP regulation

- Development of 9th ATP
- Revision of P statement logic based on new version of the ECHA Guidance (Sept. 2016)
- Revision of P statements for all EU languages including correction for Latvia (Oct. 2016)
- Alignment of GHS_EU to the 8th ATP
- Improvement of rule logic to suppress EUH204, EUH205, and EUH208 with GHS_EU/TR
- Adaptation of expert rule PIC_EU and LCId

Update of ESCom phrase catalogue to version 2.3

- Adaptation of phrases and phrase set assignments to version 2.3
Business Requirements - EMEA

Disclosure of ready-to-use VOC values on EU SDS section 15 and label
- Adaptation of VOC_PaintCoat rule
- Adaptation of template include section 15

Compliant detergent output for SDS EU/EU_EXT
- Phrase update
- Removal of hard-coded descriptor / adaptation to disclose regulatory basis from the rule
- Adaptation of Detergents_EU expert rule

Suppression of EUH066 / AUH066
- Creation of negative assessment phrase
- Adaptation of GHS expert rules for Europe, Turkey, and Australia
Business Requirements - EMEA

Extension of LCld rule to check for product classification
  - Rule set improvement

Seveso III rule logic change for display of named substances
  - Extension of rule set logic
  - Removal of external table with list data

Integration of fourth list of indicative OEL
  - Development of new values from European OEL list published in January 2017
  - Revision of values published by the three former directives
Business Requirements - EMEA

Disclosure of CMR list information on SDS Denmark
- Creation of new phrases
- Development of new RegInfo_DK rule to identify the components
- Adaptation of template includes for section 13 and 15

Disclosure of information for products containing isocyanates and epoxies on SDS Denmark
- Creation of new phrases for disclosure in section 15 / creation of trigger phrase
- Adaptation of new RegInfo_DK rule to determine the output

Adaptation of SDS for Albania to official GHS regulation
- Adaptation of RegInfo_AL rule set
- Revision of H and EUH phrases, hazard classes, codes and signal words
- Adaptation of template layout in section 15
Business Requirements - EMEA

Display of national regulations in section 15 on SDS for Latvia

- Creation of new phrases
- Development of new RegInfo_LV rule to determine national regulation to be disclosed

Disclosure of CMR information in section 15 on Dutch SDS

- Extension of property “CMR Classification (EMEA)”
- Development of SZW lists for upload to SAP EH&S
- Development of new RegInfo_NL rule to determine output
- Creation of new phrase
- Template adaptation for output in section 15

List of new substances notified or registered in Switzerland

- Development of new regulatory list
Americas

Business Requirements covered with Release 1705
Business Requirements - Americas

Updated SARA 311/312 hazard categories for SDS US
- Adaptation of SaraClass rule set
- Creation of new phrases and new phrase set assignments

Support of California Proposition 65 requirements on SDS US
- Creation of new phrase including new warning symbol
- Adaptation of RegInfo_NA rule
- Adaptation of US template include for section 15

“Right to Know” lists for Vermont and Washington
- Development of new RTK lists
Enable compliant trade secret claims according to GHS regulations in US and CA

- Creation of new phrases/phrase set assignment
- Template adaptation in section 3 for US and CA
- Extension of “Trade secret” documentation

Expansion of P statement table for GHS Canada

- Extension of GHS_CA

Extension of Canadian SDS for Biohazardous Infectious Materials

- Adaptation of GHS and HazCom rule for Canada
- Creation of new phrases including pictogram
- Implementation of a new property, among others for upload of separate 9-section annex
- Template adaptation
Business Requirements - Americas

**Improvement of SDS for Chile**

- Creation of new Chile-only phrase taken directly from the Standard
- Development of two new lists (Chilean DG list, Health Hazardous Substances)
- Addition of DG label graphics, creation of new phrase, phrase correction
- Development of new Hazard rating (NFPA) for Chile
- Enhancement of RegInfo_CL and DG rule
- Adaptation of relevant template includes for Chile

**Removal of obsolete Mexican OEL table**

- Set obsolete OEL list (ZMX_OEL) to inactive
APJ

Business Requirements covered with Release 1705
Business Requirements - APJ

Harmonization of logic to include GHS classification in HazComp calculation

- Adaptation of HazComp rules for APJ

Consistent display of negative statements on SDS Korea

- Phrase set assignment extension for phrase “not applicable”
- Alignment of Korea GHS and HazComp rule
- Template adaptation in section 2, 11, and 12

Output of Personal Protective Equipment statement on SDS Korea

- Creation of new Korea-only phrase
- Template adaptation of output in section 8
Alignment of SDS template for Taiwan with local SDS regulation
- Adaptation of phrases
- Template adaptation

Use of Trade Secret functionality for SDS Taiwan / Disclosure of CBI Approval number
- Creation of new phrases
- Adaptation of HazComp rule for Taiwan
- Adaptation of template includes for Taiwan
- Update and extension of Trade Secret documentation