

What's New in the 2015-Q2 Update of Ariel Content for SAP EHS

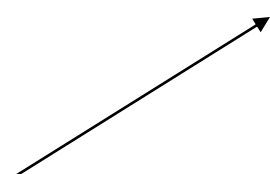
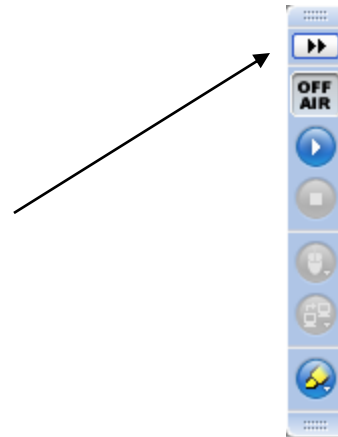
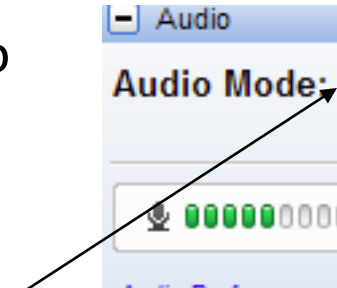
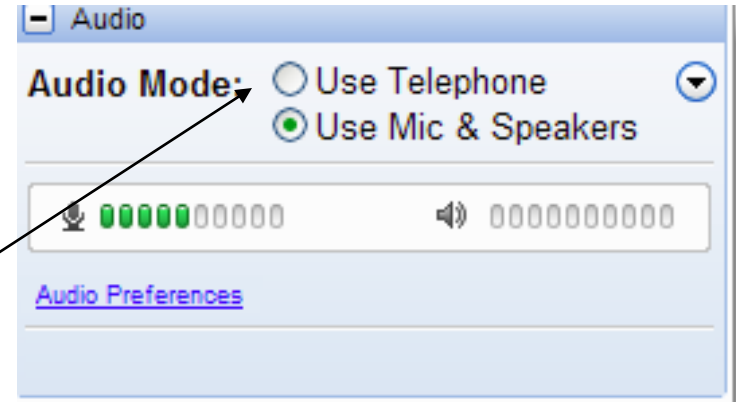
Guneet Kaur
Product Manager

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Webinar Instructions



Click Q&A button to submit your questions. Questions will be answered at the end of the presentation.

The webinar will be recorded. The audio and visual presentation link will be sent to you after the webinar.

Speaker Bio

Guneet Kaur
Product Manager



As a Product Manager, Ms. Kaur is responsible for managing the complete product development lifecycle of the SAP Expert Rules product from design to development, testing, documentation and release. She works very closely with both internal and external customers throughout the release to understand, manage and prioritize requirements.

Previously, Ms. Kaur spent 5+ years within 3E as a Sr. Requirements Analyst and a Database and Systems Analyst working on the SAP Expert Rules and ADM EHSAP products respectively.

Ms. Kaur received her Master's degree in Engineering Management from the George Washington University, DC and a bachelors degree in Computer Science from India.

Agenda

- Information about the Release
- How to best use this Webinar
- 2015-Q2 Content Update
 - Product Safety
 - Dangerous Goods
 - Phrase Library
 - Expert Rules
 - WWI Templates
- User Documentation

Information about the Release



Release Date: July 22nd, 2015

Announcements:

- Notification emails
 - 1st Notification: SAP customizing files for Product Safety
 - 2nd Notification: All files
- Update Webinars

Delivery Method:

- Single download of all quarterly update files from a dedicated FTP site
 - Organized modularly per content product
 - Client specific files
- Data Sync for both PS and DG data for ADM-EHSAP

Webinars

- Who should attend?
 - Management
 - Product Stewards
 - IT

What's there for the Management?

- Define Quarterly Update Plan
 - Define & manage timeline
 - Define and distribute tasks
 - Create a test plan
 - Make business decisions regarding Rules, Templates, phrases etc
 - Documentation
 - Creation
 - Distribution

What's there for Product Stewards?

- Regulatory Update
 - What new regulations have been added/updated?
 - What is the impact of these updates on your existing components (LIST_SUB, LS_UN_SUB) and mixtures (REAL_SUB)?
 - What Rules have been added/updated and which Rules would you need to re-run on your mixture?
 - What Templates have been added/updated?
 - Based on these updates, which SDSs would you need to regenerate?

What's there for IT?

- Technical tasks that need to be performed
 - SAP customizing
 - Reg lists, sources, data origins, validity areas, THM tables, Z tables, gen variants etc.
 - SAP Master Data Update
 - Regulatory Phrases
 - Multilingual Phrases
 - SDS Phrases
 - Database Update
 - Ariel MDB for Staging Area clients
 - Oracle or SQL database update for ADM clients – Data sync or via database files
 - Expert Server Updates
 - Adding rule registries
 - Adding/Replacing Rule files
 - Adding/Maintaining business specific decisions/customization in the settings tables
 - WWI Server Updates
 - Transports for Function modules and report symbols
 - Adding Replacing Template files

Quarterly Update Process



Product Safety 2015-Q2 Update

Product Safety 2015 Q2 Update



- Western Europe & North America – New Lists
 - Denmark. Advisory List for CLP Self-Classification of Dangerous Substances [Danish EPA, Environmental Project 1350]
 - Switzerland. Schedules 1A-3B on Substances Subject to ChKV, Regulation on the Control of Chemicals with Civilian and Military Use (ChKV)
 - Canada. Restricted Drugs. Part J. Food and Drug Regulations (C.R.C., c. 870). Food and Drugs Act
 - Canada. Controlled Drugs. Part G. Food and Drug Regulations (C.R.C., c. 870). Food and Drugs Act
 - US. Maryland. Toxic Air Pollutant (TAP) Screening Levels. COMAR 26.11.16.06 and .07

Product Safety 2015 Q2 Update



- **Asia Pacific – New Lists**

- Philippines. CCO chemicals (Chemical Control Orders, as published in DENR DAO 1997-39 as amended)
- China. Narcotic Drugs (Food and Drug Administration No. 2013-230, Appendix 1)
- China. Psychotropic Drugs (Food and Drug Administration No. 2013-230, Appendix 2)
- China. Toxic Drugs for Medical Use (Measures for Administration of Toxic Drugs for Medical Use, Appendix, December 27, 1988, as amended)
- India. Explosives (Explosive Act 1884, as amended through Ministry of Commerce and Industry Notification, S.O. 1678(E))
- India. Manufactured Narcotic Drugs (Notification of Ministry of Finance S.O. 826(E) as amended)
- India. Prohibited Narcotics & Psychotropic Substances (Narcotic Drugs & Psychotropic Substances Rules 1985, Schedule 1, as amended)
- India. Restricted Psychotropic Substances (Narcotic Drugs & Psychotropic Substances Rules 1985, Schedule II & III, as amended)
- India. Psychotropic Substances (Narcotic Drugs & Psychotropic Substances Act 1985, Schedule of Psychotropic Substances as amended)
- Bangladesh. Explosives (Explosive Act, as amended, and as specified by the Ministry of Commerce's Import Policy Order)
- Indonesia. Import and Distribution Control of Hazardous Materials (Minister of Trade Regulation No. 75/M-DAG/PER/10/2014, Annex I)

Product Safety 2015 Q2 Update



- Latin America- New Lists
 - Panama. Prior non-automatic import licensing of potentially dangerous substances or controlled materials. Ministry of Health, Decree No. 305

Product Safety 2015 Q2 Update



- Central & Eastern Europe - New Lists
 - Estonia. Concentration limits for dangerous substances in groundwater
 - Estonia. Concentration limits for dangerous substances in soil
 - Croatia. BLVs. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended)

Product Safety 2015 Q2 Update



- Middle East & Africa- New Lists
 - UAE. Ban on Importing and Circulation of Harmful Pesticides for Health and Environment (Ministerial Decree No. 193)
 - Oman. List of Restricted Chemical Substances (MD 25/2009. Annex 1)
 - Oman. List of Prohibited Chemical Substances (MD 25/2009. Annex 2)

- Inventories – New List
 - Taiwan. Existing Chemicals Inventory (MOL No. 10302023691)

Product Safety 2015 Q2 Update



- PCTEC – New Data from ECHA
 - Bioaccumulation Factor: ECHA
 - Specific Gravity: ECHA
 - ECHA Purpose Flag data are mapped to Remarks characteristics for the following SAP Properties:
 - Acute Oral Toxicity
 - Acute dermal toxicity
 - Acute inhalation toxicity
 - Acute toxicity other routes
 - Repeated Doze Toxicity
 - Bioaccumulation
 - Phase transition liquid/gas

Dangerous Goods 2015-Q2 Update

- Updated
 - 2015 Versions of ADR, ADN, and RID (Italian and Dutch)
- New Data Elements
 - Segregation Keys (IMDG)
 - Mixed Loading Groups (IMDG)
 - ADM v5.0 only

Phrase Library 2015-Q2 Update

Phrase Library 2015-Q2 Update



- New phrases
 - Header and sub-header phrases to support Canada and Turkey templates
 - H&P statements to support Canada and Turkey Rules
 - PCTEC phrases

Expert Rules 2015-Q2 Update

Expert Rules 2015-Q2 Release



- Asia Pacific

Updates/Enhancements

China & Thailand

- Update to reflect China and Thailand's adoption of sub-categories for sensitization

- Americas

Updates/Enhancements

OSHA

- NJ RTK disclosure cut-off for CMR components updated to $\geq 0.1\%$
- FEMA GRAS and FEMA Priority list logic added

Expert Rules 2015Q2 Release



- Americas

- New Rules

- Canada GHS**

- Overview

- Based on Canada. Hazardous Products Regulations. Health Canada (SOR/2015-17) (Feb 11, 2015)
 - Adopted GHS per 5th edition of UN Purple Book
 - SDS Classifications based largely on 3rd revision of GHS
 - Labeling Requirements closely aligned to 5th edition

- Rule outputs generated for:

- Classification:
 - Physical Hazards (including PNOC and additional hazards)
 - Health Hazards (including HHNOC)
 - Environmental Hazards (Optionally adopted)

Expert Rules 2015Q2 Release

- **Canada GHS (Cont'd)**
 - Classification variations to standard GHS

Hazard Class	Category	Adopted?
Explosives	All categories	Optional
Acute Toxicity – All routes	Category 5	Not Adopted
Aspiration hazard	Category 2	Not adopted
Skin corrosion/irritation	Category 3	Not adopted
Environmental Hazards	All Hazards	Optional
CANADA ADDITIONAL HAZARDS		
Combustible Dust	Category 1	Adopted
Pyrophoric Gases	Category 1	Adopted
Simple Asphyxiants	Category 1	Adopted
Static Accumulating Flammable Liquids	Category 1	Optional
Substances and mixtures, which react with water to emit toxic gases	Category 1	Optional
Physical hazards not otherwise classified (PNOC)	Category 1	Adopted
Health hazards not otherwise classified (HHNOC)	Category 1	Adopted
Biohazardous Infectious Materials	Category 1	Adopted
Substances and mixtures, which undergo vigorous polymerization	Category 1	Adopted

Expert Rules 2015Q2 Release

- **Canada GHS**

- Rule outputs generated for:

- Labeling

- Hazard and precautionary statements
 - Symbols
 - Supplemental H statements for water-activated toxicants

- Composition Data

- Hazardous Ingredients and components for label disclosure
 - Components for chronic hazard assessment – Carcinogens (IARC, NTP, ACGIH), Sensitizers, Mutagens and Reproductive hazards
 - Components for OEL disclosure
 - CAD AB OEL, CAD BC OEL, CAD MB OEL, CAD ON OEL, CAD SK OEL, OEL (QUE)
 - Components for BEI disclosure
 - ACGIH and Canada BEIs

Expert Rules 2015Q2 Release

- **Canada GHS (Cont'd)**

- Rule outputs generated for (cont'd):

- Section 15 Local Regulations

- Canada. List of toxic Substances (CEPA, Schedule 1)
 - Canada. Export Control List (CEPA Schedule 3)
 - Canada. National Pollutant Release Inventory (NPRI) Substances for 2014-15, Parts 1-4 (July 12, 2014)26/2011/ND-CP, App. 6, April 8, 2011)
 - Canada. National Pollutant Release Inventory (NPRI) Substances for 2014-15, Part 5, VOCs with Additional Reporting Requirements (July 12, 2014)
 - Canada Greenhouse Gases
 - Canada. Controlled Drugs and Substances Act, Schedules I through VIII (S.C. 1996, c. 19) (Last Amended November 6, 2012)
 - Canada. Precursor Control Regulations
 - Canada SNAC List

- **Canada GHS (Cont'd)**

Rule outputs generated for:

- International Regulations
 - Rotterdam Convention
 - Chemical Weapons Convention
 - Kyoto Protocol
 - Montreal Protocol
 - Stockholm Convention.

Composition Ranges:

- Exact value or range as found in standard composition
- Applies to all composition outputs

Flexibilities

- Exclusion of component types
- Settings table to specify cut-offs for section 15 disclosure
- Settings table to specify cut-offs for OEL disclosure

- **Canada GHS (Cont'd)**

- Technical aspects of the update:

- New Rule files
 - New rule registries
 - New configuration for Z tables in SAP

Expert Rules 2015Q2 Release



- Europe

- Updates/Enhancements

- CLP**

- » Classification

- » **Health:**

- » Read-ins from GHS Labeling (EU) in addition to GHS Labeling property

- » **Environment:**

- » Aquatic chronic toxicity cut-off changed from 0.1% to 1%

- » Labeling

- » H&P statements updated to align with the 4th ATP to CLP

- » AREU_RH_COL rule replaced by AREU_H_COL to remove R statement write-out from CLP Rule (removal of DPD reference)

- » H230 and H231 for chemically unstable gases added to the EIGA labeling rule

Expert Rules 2015Q2 Release



- Europe

- Updates/Enhancements (cont'd)

- CLP**

- » Local regulations for Section 15 outputs
 - » Settings table added for specifying cut-offs for section 15 disclosure (**new flexibility**)
 - » Composition Ranges
 - » Ranges fixed for the scenario when the component is listed at 100%.
 - » Missing range definition added for Carcinogenicity Category 2

Expert Rules 2015Q2 Release



- GHS

- Updates/Enhancements

- » Classification

- » **Health**

- » Multilayer drilldown logic added to the Skin/Eye end points.

- » Implement Ariel custom property

- » Create new regulatory lists

RULE NAME	EXIT CONDITION	EXIT PROPERTY	EXIT CHARACTERISTIC	Applies to
GHS and CLP Health	MLL_SKIN	Multilayer Exit Conditions (ZAR_EHS_1011_102)	ZAR_EHS_1011_102_EXIT	Skin corrosion/irritation
	MLL_EYE	Multilayer Exit Conditions (ZAR_EHS_1011_102)	ZAR_EHS_1011_102_EXIT	Eye Damage/irritation

Expert Rules 2015Q2 Release



- GHS

- Updates/Enhancements

- » Labeling

- » Exclamation mark symbol will be no longer come from Eye Irritation category 2 when corrosive symbol is present.
 - » Ensured exclamation mark symbol will be present when coming from Acute toxicity – Category 4 (Inhalation) when corrosive symbol is present

- HNOC

- Updates/Enhancements

- » Settings table added for combustible dust logic to specify specification ID of the component that leads to mixture's combustible dust classification. (**new flexibility**)

- Global Rules

- Updates/Enhancements

- **Transport Rules**

- » Updated to handle specifications with missing CAS numbers for multilayer drill down for Class 6 and Class 9
 - » Multilayer drilldown logic added for Class 8 determination
 - » Technical Config:
 - » Implement Ariel custom property
 - » Create new regulatory lists in SAP

RULE NAME	EXIT CONDITION	EXIT PROPERTY	EXIT CHARACTERISTIC	Applies to
DG Class 8	MLL_CORR	Multilayer Exit Conditions (ZAR_EHS_1011_102)	ZAR_EHS_1011_102_EXIT	Corrosiveness to eye

Expert Rules 2015Q2 Release

- Middle East and Africa (**new module**)

New Rules

Turkey GHS

Overview

- Based on Regulation on Classification, Labeling and Packaging of Substances and Mixtures (SEA Regulation of 2013)
- Adopted GHS per 3rd edition of UN Purple Book or 2nd ATP of CLP

Rule outputs generated for:

- Classification:
 - Physical Hazards
 - Health Hazards
 - Environmental Hazards

Expert Rules 2015Q2 Release

- **Turkey GHS (Cont'd)**

- Variations to GHS

Hazard Class	Category	Adopted?
Flammable Liquids	Category 4	Not adopted
Acute Toxicity	Category 5	Not adopted
Skin corrosion/irritation	Category 3	Not adopted
Serious eye Damage/Eye Irritation	Subcategory 2A and 2B	Not adopted
Hazardous to Aquatic Environment	Category 2 and Category 3	Not adopted
Aerosols	All categories	Not adopted
Chemically unstable gases	All categories	Not adopted

- **Labeling**

- Hazard and precautionary statements per CLP's 2nd ATP
- Symbols
- Supplemental Labeling for EUH* phrase outputs

- **Composition Data**

- Hazardous Ingredients and components for label disclosure
- Components for OEL disclosure
 - TR MAK and TR OEL
- Components for BEI disclosure

Expert Rules 2015Q2 Release

- **Turkey GHS (Cont'd)**

- Rule outputs generated for:

- Section 15 Local Regulations

- Turkey. Prohibited Chemicals at Work. Regulation on Protection of Health & Safety Measures from Risks related to Chemical Agents at Work, Annex III (June 10, 2003)
 - Turkey. Annexes 1, 3, 4, Restrictions on Use, Placing on Market and Production of Dangerous Substances (RG No.: 27092, 26 Dec 2008; amended by RG No.: 27880, 20 March 2011)
 - Turkey. Chemicals Manufactured and/or Imported Above 1 Ton, 31 March 2011
 - Turkey. High Volume Chemicals Manufactured and/or Imported, 30 November 2011
 - Turkey. List of Priority Substances, By-Law on Inventory and Control of Chemicals, No. 27092 (26 December 2008), last updated July 2012

Expert Rules 2015Q2 Release

- **Turkey GHS (Cont'd)**

Rule outputs generated for:

➤ International Regulations

- Rotterdam Convention
- Chemical Weapons Convention
- Kyoto Protocol
- Montreal Protocol
- Stockholm Convention.

Composition Ranges:

- Narrow ranges per hazard class – same as EU

Flexibilities

- Exclusion of component types
- Settings table to specify cut-offs for section 15 disclosure
- Settings table to specify cut-offs for OEL disclosure

Expert Rules 2015Q2 Release



- **Turkey GHS (Cont'd)**

- Technical aspects of the update:

- New Rule files
 - New rule registries
 - New configuration for Z tables in SAP
 - User exit update to account for new module

Templates 2015-Q2 Update

Templates 2015Q2 Update



- New Templates
 - Canada
 - Based on Canada. Hazardous Products Regulations. Health Canada (SOR/2015-17) (Feb 11, 2015)
 - New function modules
 - Turkey
 - Based on Regulation on Classification, Labeling and Packaging of Substances and Mixtures (SEA Regulation of 2013)

Templates 2015Q2 Update

- Updates to existing Templates
 - EU
 - All references of DPD removed from the CLP Template
 - Released as a part of the 2015Q2 mid quarterly update
 - Changes include the following:
 - Section 2, 3 and 16 – Removal of DPD
 - Section 1 – Only representative
 - » Sub-header included that can be blank compressed when no data
 - » Data stored in SAP property *General >>> Use of Substance/Preparation >>> Remarks*

Templates 2015Q2 Update

- Section 2 and 11 – Target Organ write-out
 - » When STOT classification exists, target organs displayed on the SDS in section 2 and 11

Hazard Statement(s): H304: May be fatal if swallowed and enters airways.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H340: May cause genetic defects.
H350: May cause cancer.
H373: May cause damage to organs through prolonged or repeated exposure.

Target Organs:
Ethylbenzene Central nervous system
toluene Central nervous system

Precautionary Statement

Prevention: P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and

Templates 2015Q2 Update

- Section 6 – Reference to other sections
 - » Sub-header “Reference to other sections” added as mandatory field
 - » The SAP property used is Measures >> Release/Spillage >> Further Accidental Release Measures >> Advice
- Section 11 – Toxicity data display:
 - » Acute toxicity for Oral, Dermal and Inhalation have been updated to remove blank data fields and more clearly display relevant toxicity information

Information on toxicological effects

Acute toxicity

Oral

Product: No data available.

Specified substance(s):

Formaldehyde	LD 50: 2,020 mg/kg
	LD 50 (Mouse): 42 mg/kg
	LD 50 (Guinea pig): 260 mg/kg
	LD 50 (Rat): 100 mg/kg
	LD 50 (Rat): 800 mg/kg

User Documentation

- Product Safety Data:
 - DDRs
 - Provides details about:
 - All available Regulations per country
 - Data elements per regulations
 - Property and characteristic mappings for those data elements.
 - Technical Quarterly Update Instructions
 - For SAP EH&S, ADM database and Staging Area mdb
 - Release Notes (**New**)
 - Regulatory changes per subscription module
- Dangerous Goods Data:
 - Release Notes
 - Provides a summary of the update

- Expert Rules and Templates:
 - Release Notes
 - Provides a summary of what has been added/updated per Rule set name per subscription module
 - User Manuals
 - Includes updated/new user manuals for that quarter (Canada, Turkey and EU) + document library of all user manuals till date.
 - Technical Documents
 - Includes updated technical documents for that quarter e.g. multilayer logic document with the exit conditions for Skin/Eye end points.
 - Flexibilities Spreadsheet:
 - Summary of all available flexibilities/features within the Ariel Rules which can be used based on business specific needs.

- Expert Rules and Templates (cont'd):
 - ADM filter
 - Reglists used by 3E Rules and Templates
 - Overview database
 - Access database of Properties, Characteristics and Phrases used in the Rules

Poll Question 1

- Would you like to be contacted by 3E regarding any of the following services:
 - Regulatory Consulting
 - On-site regulatory trainings
 - SAP Functional Workshops
 - Help with quarterly updates

Upcoming Webinar

- **U.S. TSCA Hot Topics - Reform, Nanomaterial Reporting, and CDR!**
 - Tuesday, July 28th



Upcoming Tradeshows

- **IFT 2015 (Institute of Food Technologists)**
 - July 11-14 in Chicago, IL
- **Green Chemistry and Engineering Conference**
 - July 14-16 in Bethesda, MD
- **Tennessee Safety 2015**
 - July 26-28 in Nashville, TN



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