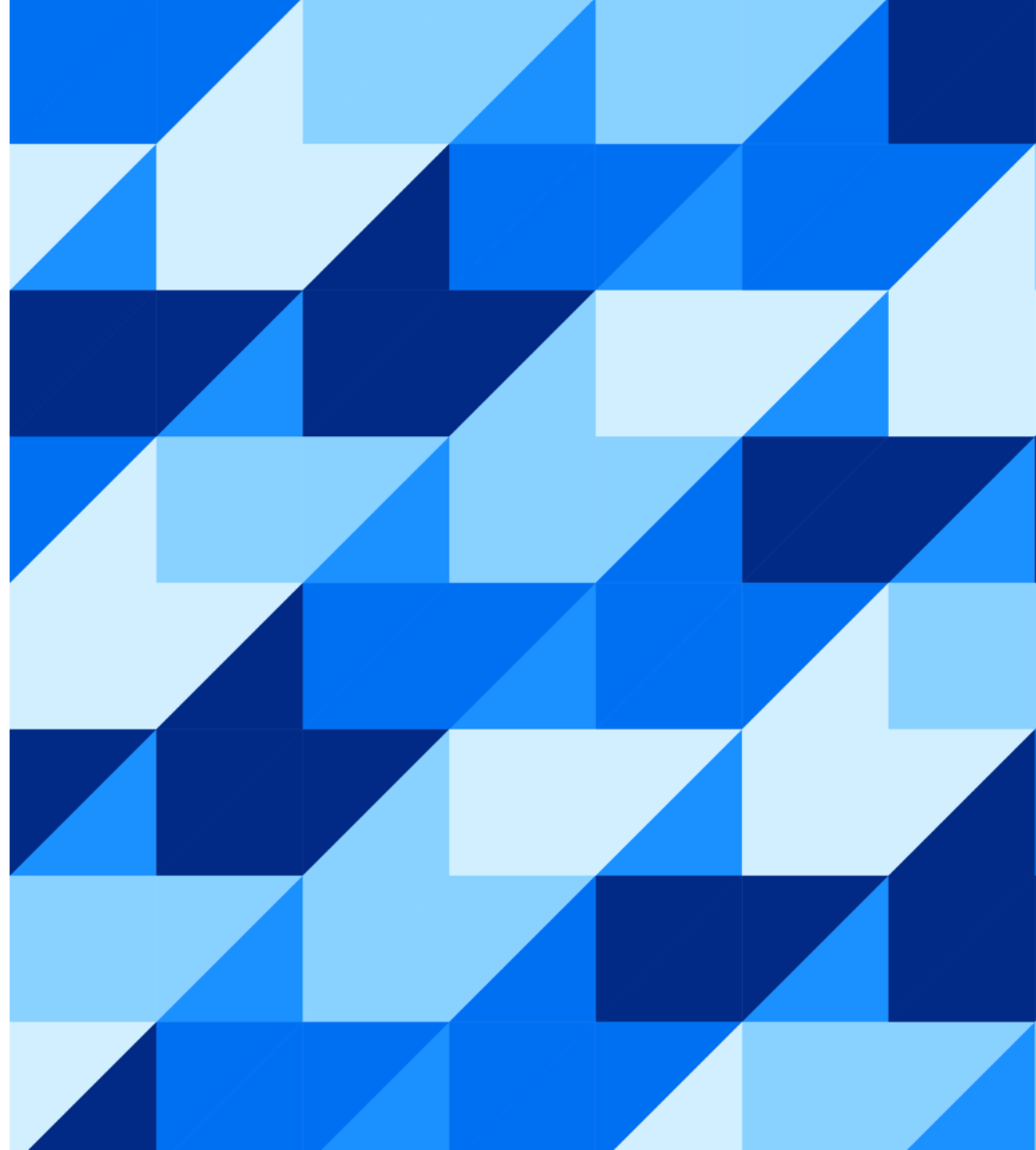




# SAP Product Compliance Overview and Roadmap

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INTERNAL – SAP and Customers Only



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Introduction

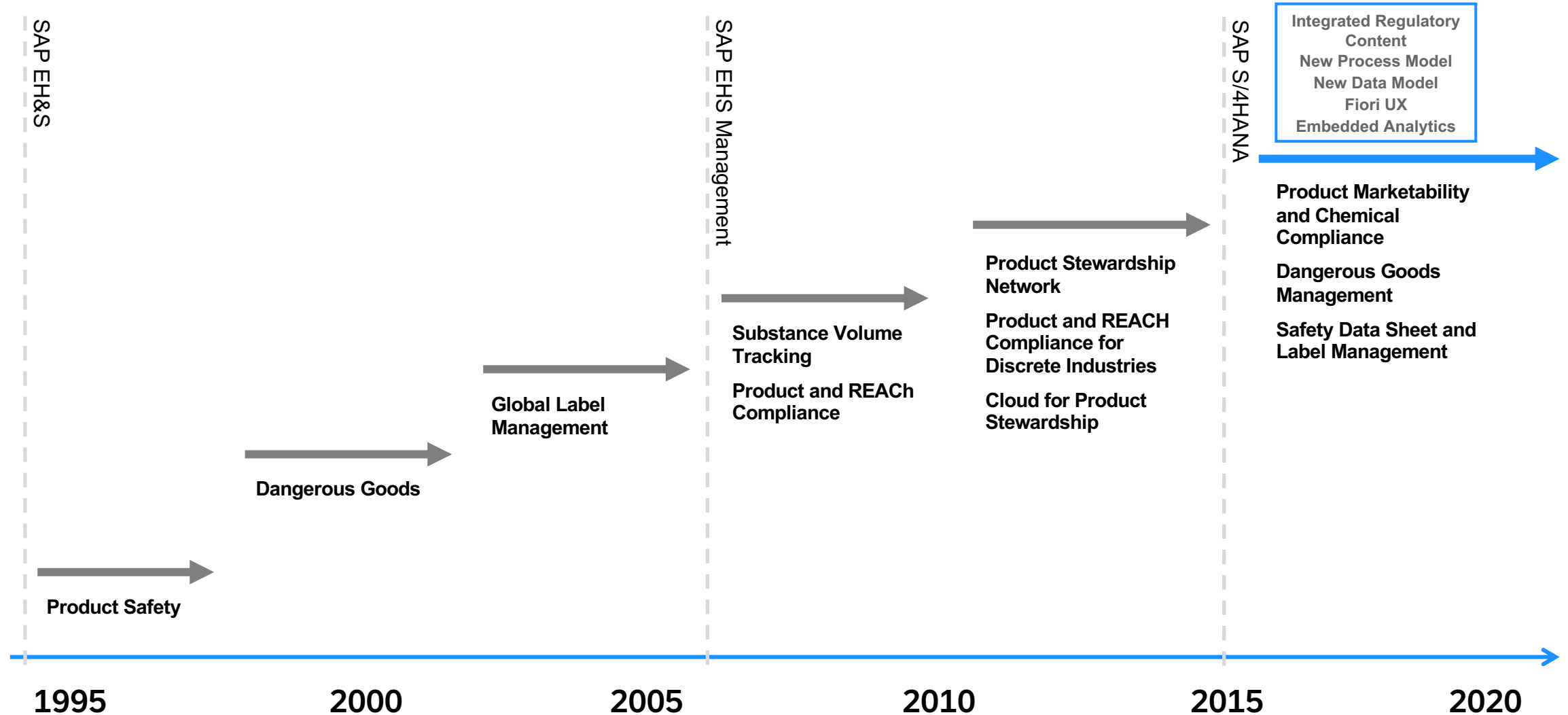
Overview New Functionality

Outlook and Roadmap

# Introduction

# SAP Commitment to Product Safety and Stewardship / Product Compliance

28+ year of investment, innovation and market leadership in delivering SAP sustainability solutions



# What is EHS and **Product Compliance**

## Environment, Health, and Safety

### Workplace Safety

- Incident Management
- Chemical Management
- Industrial Hygiene
- Management of Change

### Environment Management

- Waste Management
- Emissions Management

## Product Compliance

### Product Marketability and Compliance

- Marketability compliance for products
- Raw material / Component compliance
- Substance volume tracking

### Dangerous Goods Management

### Safety Data Sheet and Label Management

# What is Product Compliance

## Capability

## Description

## Value Proposition

**Product marketability and compliance**

Ensure compliant products and the right to market / sell for any kind of product, esp. chemicals or products which contain chemicals, e.g. industrial chemicals, consumer products, food-related, cosmetics, components, electronics, cars, helicopters

Protect your brand, secure revenue, and reduce time to market with compliant products

**Dangerous goods management**

Ensure compliant transport for any hazardous product or product with hazardous ingredients / components, e.g. industrial chemicals, combustible liquids, paints, batteries, glue, cleaner, printer cartridges

Improve on-time delivery of your goods with compliant transport for any hazardous product or product with hazardous ingredients

**Safety data sheet and label management**

Ensure compliant hazard communication for any hazardous product or product with hazardous ingredients / components, e.g. industrial chemicals, combustible liquids, paints, glue, cleaner, batteries

Protect workers, people, and the environment with compliant hazard communication for any hazardous product or product with hazardous ingredients

# Product Compliance: Product Editions / Deployment Options



## On-Premise

SAP S/4HANA for product compliance

## Private Cloud

SAP S/4HANA Cloud for product compliance, private edition

## Public Cloud

SAP S/4HANA Cloud for product compliance, public edition

Also part of SAP Cloud for Sustainable Enterprises

# Overview **New Functionality**

# SAP S/4HANA Cloud for product compliance: **Integrated Content**

powered by 

Spring 2024

## 216

Compliance requirements for **product marketability**

- 150 with regulatory content
- 66 for documentation only

## 15

Compliance requirements for **dangerous goods management**

## 102

Compliance requirements for **safety data sheet management**

## 109

Compliance requirements related to **safety data sheet authoring**

## 92

Compliance requirements for **occupational exposure limits**

## 339.476

Embedded **listed substances**

## 17.732

Embedded regulatory **phrases**

## 851

Embedded regulatory **graphics**

# SAP S/4HANA Cloud for product compliance: Product Marketability

## Marketability Compliance for Products

### Data management

- Multiple levels: unpackaged, packaged, customer-specific product
- Task-based: support user to prioritize
- Composition management: input/output view, analytical view, legal deviations; automated (re)calculation

### Compliance assessment

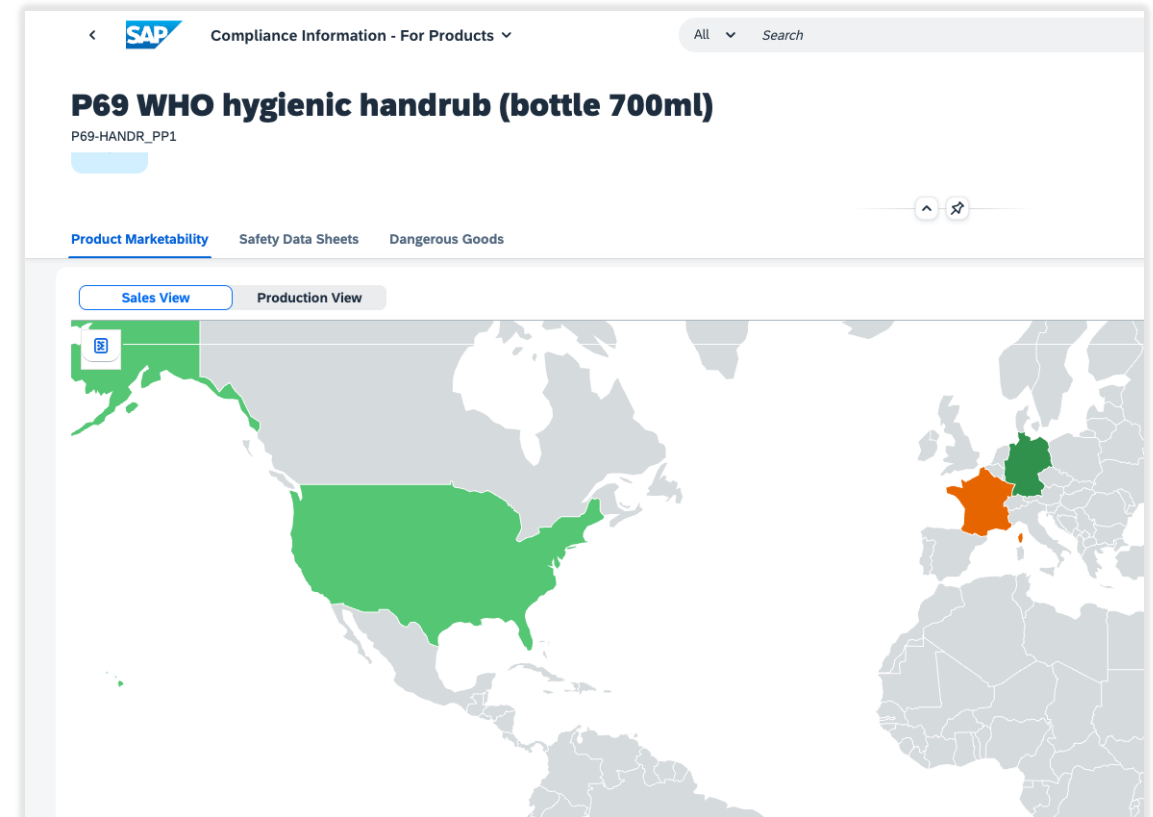
- Version concept: multiple regulation editions, in-process/released data records
- Automated (re)calculation of compliance status (as proposal) for inventories based on analytical and raw material composition
- Predefined analytics

### Market assessment

- Marketability status per country: based on compliance assessment
- Visualized with Compliance Information app
- Basis for logistic checks

### Process integration

- Integration into product master
- Marketability check: prevent noncompliant sales quotation, order, contract, scheduling agreement, outbound delivery from being processed
- Process events from logistics: central inbox for all compliance relevant issues and changes in logistic process



# SAP S/4HANA Cloud for product compliance: Product Marketability

## Raw Material Compliance

### Data management

- Multiple levels: substance, supplier material, raw material
- Task-based: support user to prioritize
- Composition management: full analytical view, legal deviations; hazardous ingredients

### Supplier Material assessment

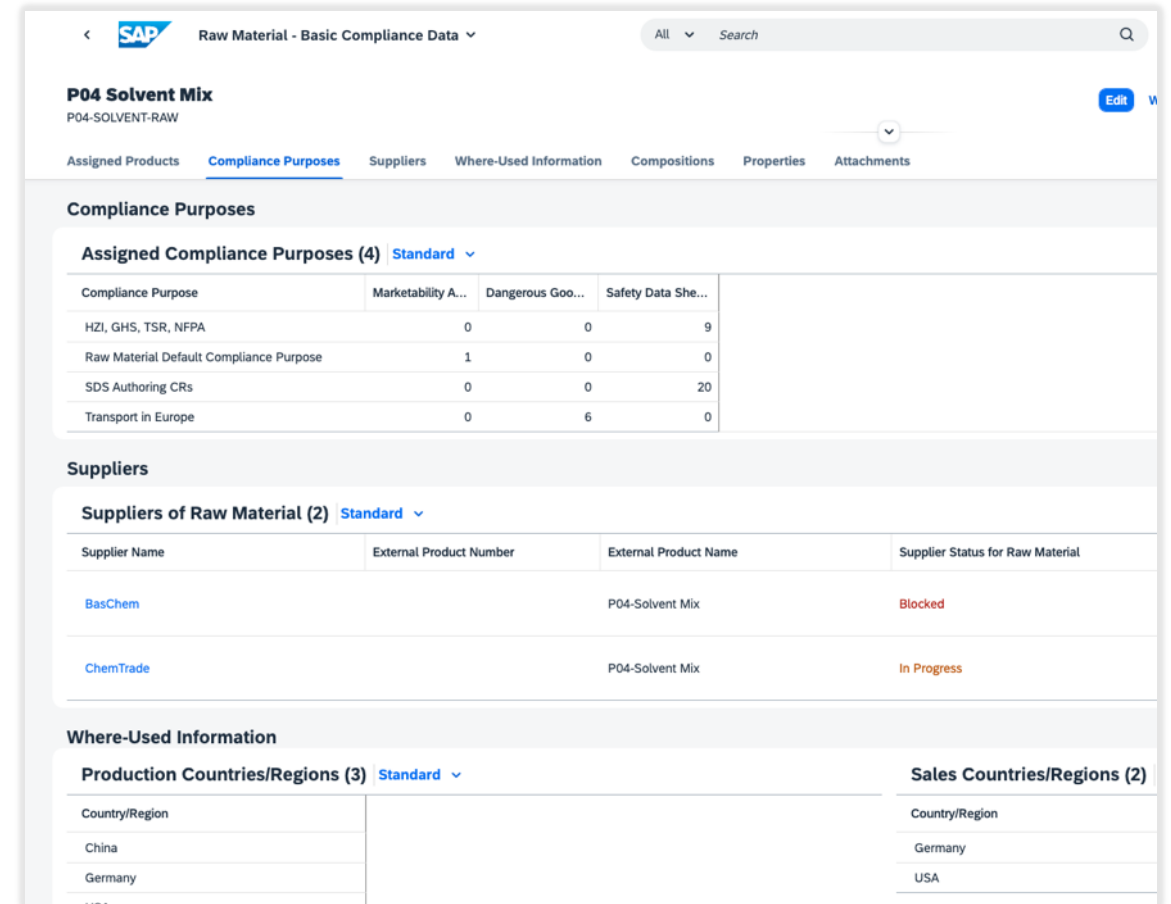
- Store compliance information (e.g. certificates) on supplier material level
- Block/approve supplier for particular raw material purchase
- Basis for logistic checks

### Raw Material compliance assessment

- Version concept: multiple regulation editions, in-process/released data records
- Automated (re)calculation of compliance status (as proposal) for raw material based on supplier materials
- Predefined analytics

### Process integration

- Integration into product master
- Supplier material check: prevent noncompliant purchase info record, purchase order, and purchase contract from being processed
- Process events from logistics: central inbox for all compliance relevant issues and changes in logistic process



**Raw Material - Basic Compliance Data**

**P04 Solvent Mix**  
P04-SOLVENT-RAW

Assigned Products | **Compliance Purposes** | Suppliers | Where-Used Information | Compositions | Properties | Attachments

#### Compliance Purposes

Assigned Compliance Purposes (4) Standard

Compliance Purpose	Marketability A...	Dangerous Goo...	Safety Data She...
HZI, GHS, TSR, NFPA	0	0	9
Raw Material Default Compliance Purpose	1	0	0
SDS Authoring CRs	0	0	20
Transport in Europe	0	6	0

#### Suppliers

Suppliers of Raw Material (2) Standard

Supplier Name	External Product Number	External Product Name	Supplier Status for Raw Material
BasChem		P04-Solvent Mix	Blocked
ChemTrade		P04-Solvent Mix	In Progress

#### Where-Used Information

Production Countries/Regions (3) Standard

Country/Region
China
Germany

Sales Countries/Regions (2)

Country/Region
Germany
USA

# SAP S/4HANA Cloud for product compliance: Product Marketability

## Substance Volume Tracking

### Data Management/Configuration

- Manage legal entities and legal entity mapping
- Manage bonded warehouses
- Manage excluded companies and plants
- Configure excluded document types and item categories
- Configure included movement types
- Maintain import responsibility for supplier materials

### Tracking Process for confirmed Substance Volumes

- Initial tracking
- Periodic tracking
- Automated and manual re-tracking
- Monitoring of tracked substance volumes based on variable tracking periods

### Regulatory Coverage(\*)

- EU REACH, UK REACH, TR KDDIK
- US TSCA Inventory, US TSCA SNUR, US TSCA CDR

### Process Integration(\*\*)

- Integration into product master
- Track confirmed substance volumes based on material documents (goods receipts/goods issues) for:
  - Standard purchase orders (IMPORT\_TO)
  - Standard manufacturing orders (PRODUCE\_IN)
  - Standard sales orders/deliveries (EXPORT\_TO)
  - Advanced Intercompany Orders

(\*) Limited scope, e.g. registrations/notifications and/or representative agreements are not considered yet → roadmap topics

(\*\*) Additional order types e.g. Stock Transport Orders, Sub-contracting Orders, Consignment Orders, Return Orders, ... → roadmap topics

**US-TSCA SNUR Status**  
2-Methoxyethanol

**Substance**  
CAS Number: 109-86-4  
Substance List: US TSCA SNUR  
Substance Internal Number: PSS-2-METHOX

**Volume**  
Substance Volume: 15.000KG  
Threshold: 0.000 KG  
Percentage of Threshold: 0.000%

**Tracking Details**  
Legal Entity: US 1710  
Tracking Period: 01.01.2023 - 31.12.2023

**March 2023**

**Monthly Details**      **Substance**      **Volume**      **Tracking Details**

Substance Volume: 15.000 KG      CAS Number: 109-86-4      Total Substance Volume: 15.000KG      Legal Entity: US 1710  
Threshold: 0.000 KG      Percentage of Threshold: 0.000%      Scenario: Import To  
Tracking Period: 01.01.2023 - 31.12.2023

**Substance Volumes by Material Documents (2)** Standard

Material Document	Year	Item Number	Posting Date	Material Description	Material	Plant	Material Q...	Substance Volume
5000008173	2023	1	22.03.2023	Raw Material SVT	RMSVT_RAW_MAT	1710	50.000 KG	5.000 KG
5000008007	2023	1	21.03.2023	Raw Material SVT	RMSVT_RAW_MAT	1710	100.000 KG	10.000 KG
5000007549	2023	1	16.03.2023	Raw Material PMA	RMPC_RAW_MAT	1710	100.000 KG	15.000 KG

**Substance Volumes by Month and Scenario**

Month and Year: March 2023  
Business Process: Purchasing  
Scenario: Import To  
Substance Volume: 15.000 KG

# SAP S/4HANA Cloud for product compliance: Product Marketability

## Due Diligence Compliance for Products

### Manage compliance disclosure information

- Multiple levels: supplier and supplier product / raw material
- Target-oriented search of compliance disclosure information of special interest such as non-compliant cases
- Analyze compliance disclosure data by various views such as:
  - Compliance Status and Processing Status
  - Compliance Requirements on Due Diligence Acts
  - Suppliers and their Countries/ Regions
  - Time Periods

### Compliance assessment

- Automated propagation of compliance requirements from product level to raw material level
- Automated calculation of compliance status for your products based on compliance disclosures with corporate-wide scope

The screenshot displays the SAP S/4HANA Cloud interface for a Marketability Assessment. The title is "DE Lieferkettensorgfaltspflichtengesetz - LkSG" with a sub-ID "P11-CDP-1100". The interface shows a product icon, "Unpackaged Product Name: P11-CDP-1100", and "Processor: (No Processor)". The "Marketability Status" is "Compliant" and "Logistics Roles" include "Sold, Transported, and Produced". Below this, there are tabs for "Compliance Details" and "Supplier Compliance Declarations". The "Compliance Details" section shows "Marketability Status: Compliant (Calculated)" and "Remarks: -". The "Supplier Compliance Declarations" section contains a table with two entries:

Supplier Compliance Declarations (2)		
Supplier	Status	Marketability Status
Computer Systems (UAE) (S3330001)	Required	Unknown
BasChem (ZPSS_BAS)	Completed	Compliant

# SAP S/4HANA Cloud for product compliance: Dangerous Goods

## Ready-packed Dangerous Goods

### Data management

- Task-based: support user to prioritize, work list
- Apply regulations to countries

### Basic classification

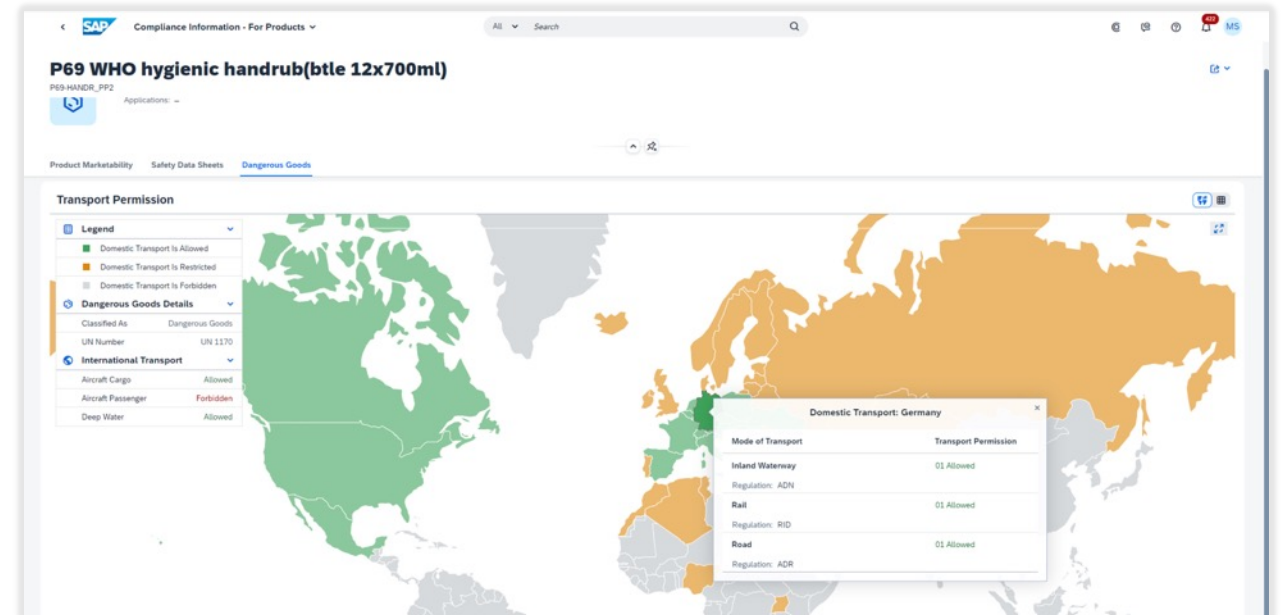
- DG classification w/o packaging consideration
- Automated generation of dangerous goods basic description in required languages
- Integrated view of regulatory data (view DG content)

### Enclosure-specific classification

- DG classification of packaged products
- Automated generation of dangerous goods descriptions for documents, label and marking text for packages
- Applied Special Provisions/Exemptions (SP 188 Batteries, SP 375/335 Environmentally hazardous substances, Combustible liquid exemption in CFR 49, Customer defined ones)
- Visualize transport permission with Compliance Information app for Sales Reps and other roles
- Visualize regulatory data with Dangerous Goods Information app for DG Experts
- Predefined analytics

### Process integration

- DG check: prevent noncompliant transport in sales quotation, sales order, sales contract, sales scheduling agreement, purchase order, stock transfer order, outbound delivery, transportation demand, and transport order
- DG data output on sales order confirmation, sales quotation, delivery note, pick list, IMO DG Declaration, ADR/RID DG Note, US/CA Bill of Lading
- DG data integration in EDI messages
- Visualize label and marking information with View Markings and Labels app for Packer
- Support side-by-side scenarios with PC Classic



# SAP S/4HANA Cloud for product compliance: Dangerous Goods

## Dangerous Goods filled in Tank/Bulk Containers

### Data management

- Task-based: support user to prioritize, work list
- Apply regulations to countries

### Basic classification

- DG classification w/o packaging consideration
- Automated generation of dangerous goods basic description in required languages
- Integrated view of regulatory data (view DG content)

### Enclosure-specific classification

- Specific DG classification for tanks and bulk containers
- Product shipped in tank or bulk container is either setup in volume or mass

### Process integration

- CFR 49: automated RQ calculation based on filled quantity
- DG check: prevent noncompliant transport in sales quotation, sales order, sales contract, sales scheduling agreement, purchase order, stock transfer order, outbound delivery, transportation demand, and transport order
- DG data output on sales order confirmation, sales quotation, delivery note, pick list, IMO DG Declaration, ADR/RID DG Note, US/CA Bill of Lading
- DG data integration in EDI messages
- Support side-by-side scenarios with PC Classic

The screenshot shows the SAP S/4HANA Cloud interface for classifying a packaged dangerous good. The product is 'P69 HerbEx XL -Tank'. The interface displays the following information:

- Control Temperature:** 0 -
- Emergency Temperature:** 0 -
- Hazard Notes:** Edit
- Dangerous Goods Classification:** Regulations (13) MyStandard

Regulation	Enclosure Variant	Transport Permission	Description for Documents	Marking Tex...	Labels on Package	Placards on Container, Tank, and ...
<input type="checkbox"/> ADN 2021 <a href="#">Display Basic Classification</a>	UN Portable Tank	Allowed	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propyzamide), 9, III Tank 1 L			
<input type="checkbox"/> ADR 2021 <a href="#">Display Basic Classification</a>	UN Portable Tank	Allowed	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propyzamide), 9, III, (-) Tank 1 L			
<input type="checkbox"/> CFR 49 as of July 26th 2022 <a href="#">Display Basic Classification</a>	UN Portable Tank	Allowed	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Propyzamide), 9, III, ERG: 171 Tank 1 L			
<input type="checkbox"/> IATA-DGR 2022 <a href="#">Display Basic Classification</a>		Forbidden	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Propyzamide), 9, III			

# SAP S/4HANA Cloud for product compliance: SDS Management

## Manage and Send SDS

### Data management

- Re-use basic data from product marketability
- Apply proper SDS requirements to countries

### Definition and validation

- Safety data sheet requirement definition
- Upload and release SDS document
- Predefined analytics
- Basis for logistic integration

### Process integration

- SDS existence check in sales order, sales contract, outbound delivery, and stock transport order
- Request from logistic for missing SDS
- Automated SDS shipment triggered by delivery processing
- Automated subsequent SDS shipment (US and EU rules)
- Manual shipment
- Support side-by-side scenarios with PC Classic

Language	Safety Data Sheet Status	Version	Generation Date
German DE	Available	1.1	22.11.2022
French FR	Available	1.1	10.11.2022
Italian IT	Available	1.1	08.11.2022

Compliance Information - Fo... All Search

OP22-01 WHO handrub FG 401  
OP22-01\_FG001

Product Marketability Safety Data Sheets Dangerous Goods

Safety Data Sheet - Türkiye  
TR Safety Data Sheet (Jun 2017)  
Send

# SAP S/4HANA Cloud for product compliance: Label Management

## Manual Label Printing

### Data management

- Re-use data from product marketability and SDS management
- Maintain label specific information
- Re-use integration infrastructure from other product compliance capabilities to ensure data flow integration

### Definition and release

- Define label requirements as compliance requirement
- Define “virtual” labels as label configuration (including link to partner solution template)
- Versioning and release concept

### Business process integration

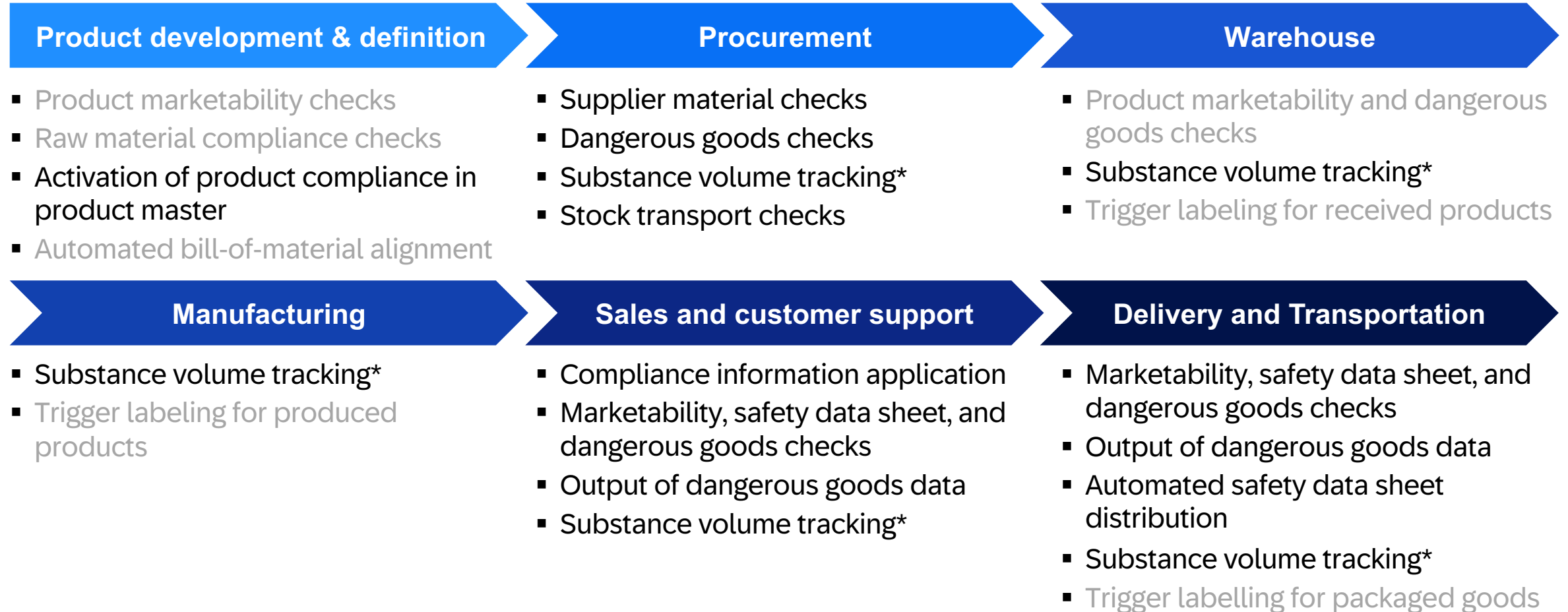
- Manual printing
- Future: Label determination logic
- Future: Re-use existing or develop new integration trigger for label display and printing

The screenshot shows the SAP S/4HANA Cloud interface for 'Validate and Print Labels'. The header includes the SAP logo, the title 'Validate and Print Labels', and a search bar with 'All' and 'Search' options. Below the header, there is a 'Standard' dropdown menu. A search bar contains the value '80011013' and a 'Scenario' dropdown menu is set to 'Delivery'. Below this, a table titled 'Validate and Print Labels (4)' displays the following data:

Product	Product Description	Product Type Description	Delivery	Manufacturin
TG12	HAWA 12, Bestellpunkt, normaler Handel	Trading Goods	80011013	
EASY CLEAN SAP	Easy Clean SAP	Finished Product	80011013	
4531	Trading.Good 11,PD,Reg.Trading2137	Trading Goods	180010113	
TG11	Handelsware 11, PD, normaler Handel	Trading Goods	180011013	

# SAP S/4HANA Cloud for product compliance: Business Integration

Spring 2024



Color legend: available, planned

\*For a limited number of regulations and movement types

# Outlook and Roadmap

# Product Compliance: Roadmap Topics 2024 and beyond

SAP Labs preview

2024

2025 and beyond

## Compliance Data Foundation

- Support for categorizing a product as article
- Continuous provisioning of regulatory graphics
- Continuous provisioning of Dangerous Goods compliance requirements

- Support for partner content
- Support for branded products (“trade name”) and kit products
- Support for distributed process scenarios
- Field / Node extensibility
- Mass data maintenance

## Product Marketability

- Determine compliance status of due diligence acts on product level
- Support for due diligence acts by analyzing compliance disclosures
- Enhanced integration of substance volume tracking into the value chain

- Extended due diligence support (blocking, reporting, ...)
- Compliance information sheet
- Product Structure, Basic Materials, SVHC/RoHS support
- Track confirmed substance volumes for further countries (incl. EU)
- Track planned substance volumes
- Integration with EPD Specification Management

## Dangerous Goods Management

- Defining applied special provisions and exemptions
- Output scenarios for additional transport documents
- Mixed loading rules
- Mass classification of packaged dangerous goods
- Support of distributed system landscapes

- Mixed loading check
- Support of “partly flexible” packaging process
- LO-Packing instruction integration
- Support Dangerous Goods in Equipment
- Support for Tremcards

## SDS and Label Management

- Extension of Label Field Catalog
- Enabling assignment and printing of labels for R&D products
- Rate product as “not SDS relevant”
- Extension of data model
- Integrated SDS authoring: basic document generation

- Label printing with partner solution via output management
- Integrated SDS authoring: manual process for first product profile
- Integrated SDS authoring: basic calculation of secondary data
- Integrated SDS authoring: customer / partner extensibility for data and template

Link to SAP Roadmap Explorer: <https://roadmaps.sap.com/board?BA=40F2E9281A631ED892E96ED086EE20DC&range=2023Q4-2024Q4 - Q1 2024>

# Thank you.

Contact information:

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