SAP Solution Brief
SAP Solutions for Sustainability

SAP Environment, Health, and Safety Management

Streamlined, Integrated REACH Compliance Management

Quick Facts

Summary

Organizations working with chemicals must register applicable substances, ensure they are handled safely, and inform partners about compliance status to meet the requirements of the European Union's Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) regulation. The SAP® Environment, Health, and Safety Management application enables companies like yours to meet REACH requirements efficiently and optimize associated business processes.

Business Challenges

- Enable compliance with registration obligations as well as tonnage, use, and operational conditions across business processes
- Facilitate REACH management processes
- Improve collaboration and communication with partners

Key Features

- **Substance and end-point management** – Maintain chemical substance data with a centralized database and link and synchronize data with International Uniform Chemical Information Database (IUCLID)
- **Supply chain collaboration** – Support communication with suppliers and customers through data exchange processes and enhanced material safety data sheets and questionnaires
- **REACH registration management** – Organize and monitor processes such as registration, notification, and authorization

Business Benefits

- **Improve visibility** into the impacts of REACH throughout the enterprise
- **Take a strategic, holistic approach** to compliance and effectively process requirements
- **Streamline and facilitate registration** with consistent information on substances, products, and registration projects
- **Improve diligence and reduce the risks** of noncompliance
- **Detect gaps, maintain timelines, and fulfill documentation** requirements
- **Increase efficiency** of REACH projects and reduce associated costs

For More Information

To learn how the application can enable REACH compliance, contact your SAP representative or visit us at www.sap.com/grc or www.sap.com/chemicals.

The European Union's Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) regulation calls for companies that make, trade, or use chemical substances to demonstrate the safety of the chemicals and provide information on how they are used. With the SAP® Environment, Health, and Safety Management (SAP EHS Management) application, companies like yours can optimize processes and address REACH requirements efficiently and effectively.

Compliance with REACH is not a onetime exercise. Instead, it requires the adoption of a new set of processes that change how manufacturers, importers, and users of chemicals do business. And beyond being available for meeting regulation requirements, REACH data and documentation can be a valuable asset in the event of company mergers or acquisitions. With the SAP EHS Management application, you can take a strategic, reliable, and cost-effective approach to REACH compliance. Because of the application's modular design, you can adapt it to the specific needs of your industry.

SAP EHS Management supports your environment, health, and safety processes and enables you to identify chemicals used and monitor quantities across the organization. The application facilitates task-driven, documented registration processes and fosters cooperation with relevant authorities and business partners. SAP offers additional services – including implementation, training, hosting, and business process out-tasking – to make your business REACH compliant faster and help you respond flexibly to the increasing workloads of comprehensive registration.

COMPLEX COMPLIANCE CHALLENGES

REACH requirements have a multiphase time schedule, and documentation must be kept for 10 years after the release of registered substances. Chemicals must be registered by all parties that use them, leading to multiple registrations for many substances. In fact, the number of REACH registrations since its adoption in 2007 has greatly surpassed expectations. In addition to the sheer number of registrations, substantial amounts of data need to be managed. Centralizing these activities within the enterprise avoids redundant data maintenance across subsidiaries. Testing procedures must be approved by authorities, and you have to test for new use and exposure scenarios.

REACH also necessitates extensive collaboration outside the organization, as registrants are obligated to form substance information exchange forums (SIEFs) to coordinate substance registration and testing. This means you have to balance the need to share data with issues such as intellectual property exchange, antitrust regulations, and tax and financial accounting. SIEFs can range in size from two to more than 5,000 participants, and effective communication is critical to successful collaboration within and among these groups.

Compliance with quantity and usage conditions for registered substances can have effects throughout the organization. Supplier limitations may restrict your choices for procuring raw materials, and registration coverage can limit the marketability of your products. To address these issues, you need substance-volume tracking and use-management functionality with in-process product compliance checks for activities from research and development to procurement to sales.

In addition to registering chemical substances that occur in your products, you must document all uses of your products throughout the value chain. Reliable communication with external partners is crucial to this end. Products from suppliers that do not meet certain usage requirements or exposure limits must not be shipped without notification. To protect trade secrets and keep safety data sheets manageable, data sheets should cover only exposure scenarios for specific materials or customers. Substance uses communicated from suppliers and vendors need to be tracked to identify any gaps in coverage.

SIMPLIFYING AND STREAMLINING REACH MANAGEMENT

The SAP EHS Management application integrates with your SAP ERP application and provides comprehensive support for related processes, whether mandated by regulatory bodies or driven by business requirements. To support your efforts efficiently, the application focuses on three areas: substance and end-point management, supply chain collaboration, and registration management.

Substance and End-Point Management

The application enables you to maintain REACH-relevant information for each substance in a centralized database. To facilitate collaboration with fellow SIEF members, you can allow them access to this information. The application links and synchronizes your end-point data records with International Uniform Chemical Information Database (IUCLID) data records, enabling you to track and document the coverage status of substances and identify gaps in coverage. The application tracks which chemicals are used in your preparations and products and monitors and evaluates substance volume boundaries.

For example, you can track and monitor quantities of a single substance for a single legal entity, such as a customer or supplier. You also can follow multiple chemicals through multiple entities to determine registration needs and timelines. Instances of "own use" – the use by your organization of a chemical on its own or in a preparation – can be specified for subsequent registration, and substance information can be received from supply chain partners.

Supply Chain Collaboration

Powerful functionality supports communication with suppliers and customers. Data exchange processes use enhanced material safety data sheets and questionnaires to gather information about usage and exposure scenarios, allowing you to compare own use with customers' use information. User-friendly interfaces and data conversion services increase efficiency through electronic data exchange.

SAP Interactive Forms software by Adobe supports the collection of suppliers' specification data and customers' product use data for substance exposure scenarios. Comprehensive monitoring tools track the status of communication with suppliers and customers and initiate appropriate follow-up activities. SAP EHS Management enables the creation of extended safety data sheets based on customers' responses and materials used. The application helps to ensure that only relevant exposure scenarios are shared, protecting trade secrets and keeping data sheets as clear, concise, and manageable as possible.

REACH Registration Management

With SAP EHS Management, you can organize and monitor all REACH-related processes including registration, notification, and authorization. Milestone lists for registration types help you manage registration projects, and there are also milestone lists that cover pre-SIEF as well as SIEF activities. Preregistration data can be downloaded from the European Chemicals Agency (ECHA) Web site to jump-start data entry. You can monitor registration activities against timelines using queries and dashboards. Tracking functionality provides an overview of current REACH registration status, and project management functionality helps you control costs and coordinate activities and resources.

BENEFITS OF REACH COMPLIANCE WITH SAP SOFTWARE

SAP EHS Management works hand in hand with your SAP ERP application to provide integrated support for all REACH processes. The application helps ensure the smooth flow of accurate, up-to-date information that is key to successful REACH registration and authorization.

The application improves visibility into the impacts of REACH projects across the organization and supports consistent, nonredundant data. The application provides stakeholders with trustworthy information on substances and products, and on the REACH projects initiated to register them. This promotes the success of REACH registrations and alerts you early in the process to potential supply chain disruptions.

With the application, you can boost the organization's diligence regarding REACH requirements and reduce the risks of noncompliance. SAP EHS Management enables a holistic approach and helps you process compliance requirements effectively. You can detect compliance gaps in your portfolio, adhere to timelines, fulfill documentation requirements, and address the effects of the regulation on enterprise operations.

SAP software and services – including implementation, training, and hosting – can help your business become REACH compliant more efficiently and respond more flexibly to the increasing workload of comprehensive registration of chemical substances.

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SAP EHS Management enables you to increase the efficiency of REACH projects and reduce associated costs. Through its integration with SAP ERP, the application automates processes and reduces redundant data, manual tasks, and sources of error. You can perform REACH tasks more effectively, including supply chain collaboration and volume tracking, and save time and money.

Find Out More

To learn more about how SAP EHS Management can facilitate REACH compliance, contact your SAP representative or visit us at www.sap.com/grc or www.sap.com/chemicals.

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