Ariel® Expert Rules, Phrases and Templates

SOLUTIONS FOR SAP® EHSM

Reduce the amount of time spent researching, understanding and applying global chemical regulatory requirements and ensure that safety data sheets and other documents are compliant with country-specific regulations. Improving global hazard communication has never been easier.

Overview

Business decisions related to the manufacturing and marketing of products around the globe require comprehensive, up-to-date chemical and regulatory information to quickly meet legal requirements and provide accurate documentation for every product depending on its composition, where it is produced and how it is used and distributed. Ariel Expert Rules, Phrases and Templates offer an end-to-end solution for applying automated logic to the substance database in SAP® EHS Management resulting in complete safety data sheets and labels that satisfy country-specific regulations. The Ariel Rules Builder, combined with the power of Ariel global chemical regulatory and rules content, multi-lingual phrases and templates, give companies the ability to:

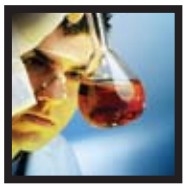
- Improve the time it takes to introduce new products to market or existing products to new markets
- Manage increased regulatory pressures and customer requirements
- Enhance the quality of documentation by eliminating manual processes
- Reduce the burden on the compliance professional
- Decrease the risk of delays or fines due to inaccurate documentation

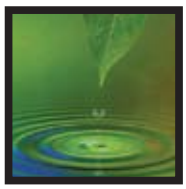
As they are designed to help ensure regulatory compliance for final products, the Rules can be run against mixtures and components. The Rules programs make determinations using basic data such as physical-chemical properties, toxicological test results and safety data in the same way an author would. The end result is automated population of each section of an SDS and other documents that are mandated by a regulation.

The Rules eliminate variations in SDS authoring, as well as human error, and ensure that the country-specific requirements for various outputs are met consistently.

Using Ariel Multi-lingual Phrases also saves time and improves the quality of documentation. Available in dozens of languages, Phrases provide an efficient method for global companies to simplify the creation and authoring of SDSs, labels and other documents by automatically translating standard health and safety phrases into multiple languages. The library provides thousands of phrases, including titles of regulations; Risk and Safety, and GHS phrases with hazard and precautionary statements, classifications and classification categories; value-type phrases such as skin notations, ceiling values, TWA, OEL phrases; and exposure scenario phrases.

Regional and country-specific SDS and label document templates round out the solution, further simplifying the process for creating consistent and compliant regulatory documentation.





3E COMPANY
A Verisk Analytics Company

Trusted Global Provider of Chemical, Regulatory & Compliance Information Services

It's the Content that Counts

At the core of Ariel EH&S Decision Support products and services is the massive global regulatory content aggregated, refined and maintained by 3E's own team using documented best practice methodology, and through direct relationships with regulatory bodies across the globe.

More than 300 multi-national organizations, including 70% of the world's largest chemical manufacturers, rely on Ariel content every day. The breadth of countries covered and depth of regulatory and legislative information provided offer unprecedented support for identifying, monitoring and complying with ever changing EH&S requirements.

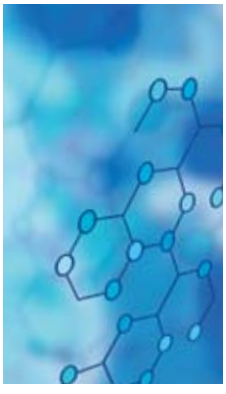
Our Own Team of Regulatory Specialists

3E Company's own team of specialists research, procure and update the global regulatory content that is delivered by Ariel EH&S Decision Support products and services. The Ariel Global Research Team has the experience, contacts and language skills needed to keep current with changing regulations. Ariel Content is based on official government sources in the respective countries.

The team consists of professionals with legal expertise and active relationships with the government agencies around the world that provide assistance in procuring and analyzing legislation. Our specialists possess extensive language skills to facilitate translations and dialogue with appropriate regulatory bodies. While there are several vendors that specialize in the data management technology while buying the bulk of their content to re-package or resell, 3E Company offers the valuable combination of both. We source our own content and develop the underlying technology to deliver it—all with our own employees, no sub-contractors.

Quality Process

The Ariel Global Research Team regularly researches and updates the regulatory content residing in the Ariel global regulatory database and has established a process for monitoring changes in regulations that impact Ariel Expert Rules, Phrases and Templates.



Rules, Phrases and Templates

Rules

Expert Rules are available through a variety of Rules sets, enabling subscriptions to all, or portions of, the Rules package. Rule sets are segmented by geography or regulation and include:

- **North America:** Covers US, Canada and Mexico
- **Europe:** Covers all 27 EU members plus Norway, Switzerland and Liechtenstein
- **Asia Pacific:** Covers Japan, Korea, China, Malaysia, Australia, Taiwan, Thailand, Singapore and New Zealand
- **All Regions**
  - Composition determination rules
  - Chemical inventory status determination
- **GHS:** Includes classification and labelling of mixtures according to the UN Purple Book and accounts for country specific variations in US, Japan, Korea, Singapore, China, European Union and Taiwan.
- **Transport Classification:** perform transportation classification according to the following five regulations:
  - ADR: European agreement on the international carriage of dangerous goods by road
  - RID: Regulations concerning the International carriage of dangerous goods by rail
  - IATA: International Air Transport Association (IATA) Dangerous Goods Regulations
  - IMDG: IMO International Maritime Dangerous Goods Code
  - 49CFR: US Department of Transportation Hazardous Materials Regulations
- Ariel **Phrase Assignment Rules:** These Rules complete the package, resulting in a fully automated solution for all sections of a safety data sheet. Ariel Phrase Assignment Rules are only available with the Ariel Rules Builder application.

Easy-to-use, Flexible Rules Builder

The Ariel Rules Builder features a user-friendly interface eliminating the need for IT expertise while still providing SAP EHSM users with flexibility and control over the way Rules are applied. This application is packaged with the Ariel Phrase Assignment Rules.

Ariel MSDS Multilingual Phrases

This Phrase Library is available in three language packages:

- Western European Languages
- Central and Eastern European Languages
- Asian Languages

Ariel ES Phrase Library

To meet REACH requirements, the Ariel Exposure Scenario Phrases can be used for creating and translating Exposure Scenarios and the creation of eSDSs (Extended Safety Data Sheets). ES Phrases are provided in the following language packages:

- Western European Languages
- Central and Eastern European Languages

Ariel Product Safety Regulatory Phrases

These phrases are packaged according to the regional Ariel Product Safety regulatory modules. Customers can subscribe to a single region or multiple regions, where the regions available correspond to the Ariel Product Safety subscription:

- North America
- Western Europe
- Central & Eastern Europe
- Asia Pacific
- Latin America

For a detailed list of specific Rules, Phrase types and languages, contact a 3E Company sales representative.

Templates

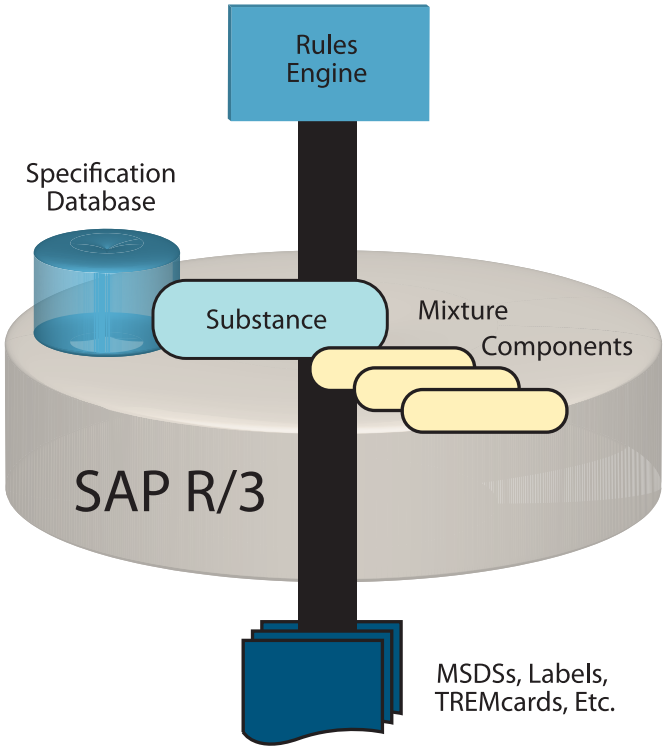
Ariel solutions for SAP EHSM include regional and contry-specific SDS document templates that can be tailored to your company's requirements.

Templates are available for:

- North America
- Europe
- Asia Pacific

Implementation Services

The Ariel team of experienced consultants provides on-site implementation and training on Ariel solutions for SAP EHSM. It is required that regulatory content has been populated to the SAP EHSM specification database.



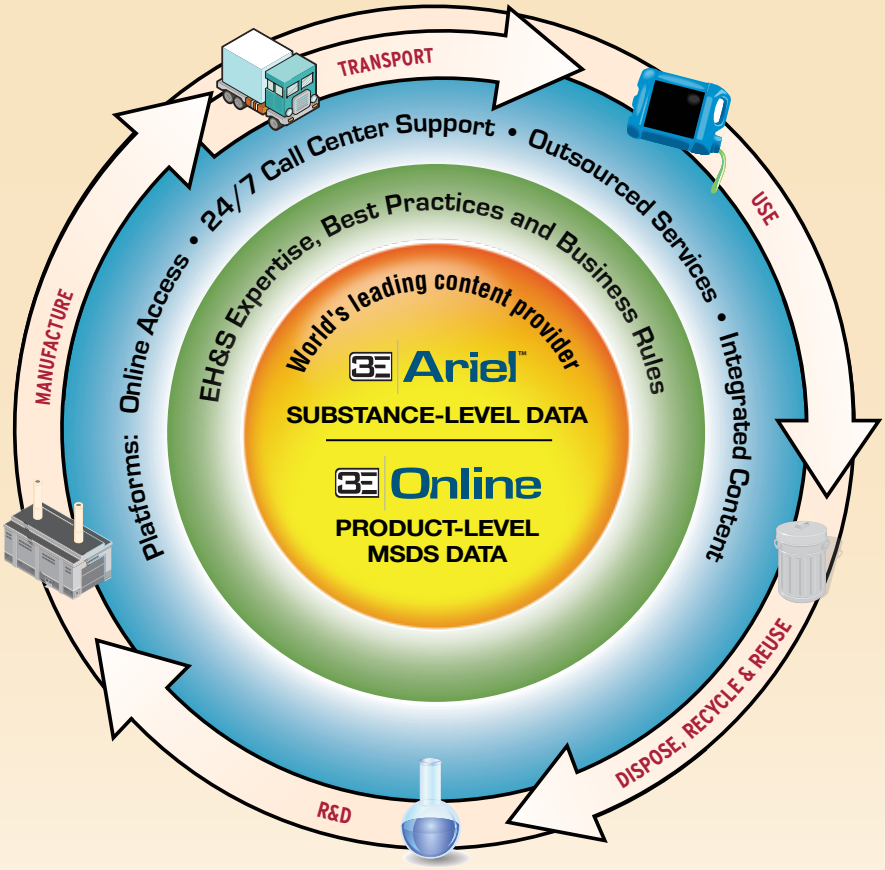
SAP® Certified
Integration with SAP Applications

Ariel® Expert Rules, Phrases and Templates

SOLUTIONS FOR SAP® EHSM

Full Chemical Lifecycle Management

3E Company's comprehensive suite of data products and information services enables improved compliance with global Environmental Health & Safety (EH&S) requirements related to the safe manufacturing, distribution, transportation, usage and disposal of chemicals and hazardous products. Whether you are a manufacturer, distributor, transporter, retailer or corporate user of chemicals or hazardous products, 3E can deliver a program specific to the EH&S compliance information and management needs of your organization that provides benefits to the entire enterprise and throughout the supply chain. 3E Company's full product lifecycle and supply chain approach provides a single, integrated solution for managing EH&S capabilities, resulting in reduced cost, risk and liability while improving business and compliance processes.



EH&S Challenges

Managing the information associated with environmental, health and safety compliance is a complex, time consuming, resource intensive and often expensive task. Manufacturers and distributors are especially challenged because they have complex internal and external obligations. Internally, they must ensure the safety of their own employees. Externally, they must ensure the safety of their products, provide information to their downstream customers, and comply with government regulations related to import/export, hazard communications, new chemical notification, reporting and the restriction on marketing and use of hazardous substances.

3E EH&S Solutions

At 3E Company, we understand the business and the burden of EH&S information and compliance management. We have combined an experienced and dedicated staff of EH&S professionals with the power of a rich database of millions of MSDSs and regulatory information. The result is a set of EH&S business rules and best practices that are unparalleled in the industry. With 24-7-365 access and professional services, 3E offers a set of outsourced compliance and information management solutions that will save you money and let your EH&S staff focus on the more important tasks associated with maintaining a safe working environment.

Locations

CORPORATE HEADQUARTERS
3207 GREY HAWK COURT, SUITE 200
CARLSBAD, CA 92010 USA
TEL: +1 760.602.8700

Ariel Global Product Development & Operations
4520 East West Highway, Suite 440
Bethesda, MD 20814 USA

Ariel U.S. Authoring &
Related Services Center
Building P2
137 Regional Service Park Drive
Kingsport, TN 37660 US

3E Company Europe
Lyngbyvej 20, 3
DK 2100 Copenhagen Denmark
Tel: +45 70 22 81 70

Visit WWW.3ECOMPANY.COM today to learn more, take our 3E Virtual Tour or view a demonstration of one of our online services. For more information contact us at 1-800-360-3220 or info@3ECompany.com.

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