Overview
Under REACH guidelines, companies supplying 10 tons or more per year of a hazardous substance must provide Exposure Scenarios (ES) as an integrated part of their SDSs to cover all “identified uses” throughout the life cycle of the substance. The resulting longer document becomes the Extended Safety Data Sheet (eSDS). An exposure scenario must include risk assessments for all uses to ensure the substance is properly controlled at all times. ES also provides a tool for communicating operational conditions of use throughout the supply chain.

This major addition of information in addition to the SDS presents a significant challenge for EH&S professionals and MSDS authors. Information from the REACH registration and Chemical Safety Report must be included. All of the eSDSs must be translated where multiple languages are required and authors need to become familiar with including a new type of data in their documents.

Support you need, when you need it
3E Company offers a service to create Exposure Scenarios for pure substance products as well as for individual components in a mixture. The eSDS-ESs are either provided as separate documents or attached to and integrated within part of the European SDSs.
**Aligned with ECHA**

While industry is still in the early stages of developing guidelines and best practices, the eSDS-ES format and structure used by 3E was designed through active involvement and close collaboration with the European Chemicals Agency (ECHA). 3E reflects the ECHA structure, using the following guidance documents published by ECHA which also align with the XML standard ESCom XML, which has been developed by IT providers together with industry for communication between different IT systems:

- Guidance on information requirements and chemical safety assessment; Chapter R.12: Use descriptor system. Version 2, March 2010

**How it works**

To streamline the complex process of Developing Exposure Scenarios as much as possible, customers should provide substance and component information to 3E in the ECHA standard format. This standard structure of the information may be readily available either via the REACH Chemical Safety Report from the REACH registration of the substance or via the eSDS received from the supplier.

3E will then create the Exposure Scenario using its Ariel ES Phrase Library, which contains the full set of phrases from the European Phrase Catalogue EuPhraC version 1.1, which is widely accepted as an industry standard by manufacturers throughout the world.

**Exposure Scenario Authoring**
**Special Capabilities that make the Difference**

**Confidentiality**
All proprietary information shared with 3E for the purposes of authoring eSDSs will remain confidential. The final 3E-authored document is also property of the customer and will be made available to end user customers, or kept confidential, in conformance with the client’s policy.

**Specialized Expertise**
Our highly-skilled, multi-lingual authors come from a variety of industries and backgrounds, including Chemistry, Biology and Chemical Engineering, and are all domain experts in global EH&S regulatory requirements. With broad regulatory knowledge across many countries and regions, the team is well equipped to ensure proper understanding of the requirements for document content. The team’s native language skills span more than a dozen languages.

**Accessible Support**
The Authoring team resides and works in several time zones, which makes them accessible most anytime. You can talk to and work directly with your assigned authors.

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**Representative list of industries for which we provide authoring services**
- Cosmetics
- Detergents, Buffer Agents
- Electronics
- Fertilizers
- Inorganic Chemicals
- Food Chemicals
- Metals
- Paints, Coatings
- Pharmaceuticals
- Oil, Petroleum and Gas
- Organic Chemicals
- Polymer and Plastics Formulations
- Specialty Chemicals
**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. 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**

With the spotlight shining brightly on EH&S compliance, companies are challenged with finding effective ways to address the complexities and intricacies of EH&S compliance management. Not only do these challenges stem from a constantly-changing regulatory landscape, but also from a scarcity of newcomers to the EH&S field, and pressure on EH&S departments to manage increased responsibility with fewer resources. Addressing these issues requires broad and deep domain expertise — expertise that doesn’t always exist within the company. And if it does, this expertise is probably best utilized driving the company’s overall compliance strategy, not bogged down with paperwork or the administrative burdens associated with maintaining compliance.

**EH&S Solutions**

At 3E Company, we understand the business and the burden of EH&S information and compliance management. 3E Company is a comprehensive, one-stop solution for content, tools and services for companies that want to take effective leadership and control of their product stewardship and EH&S compliance activities. 3E’s products and services help companies make the transition from simply managing for compliance, to cutting-edge product stewardship practices that deliver tangible and sustainable business results.