



Global Strategy for GHS Compliance

Lisam Systems

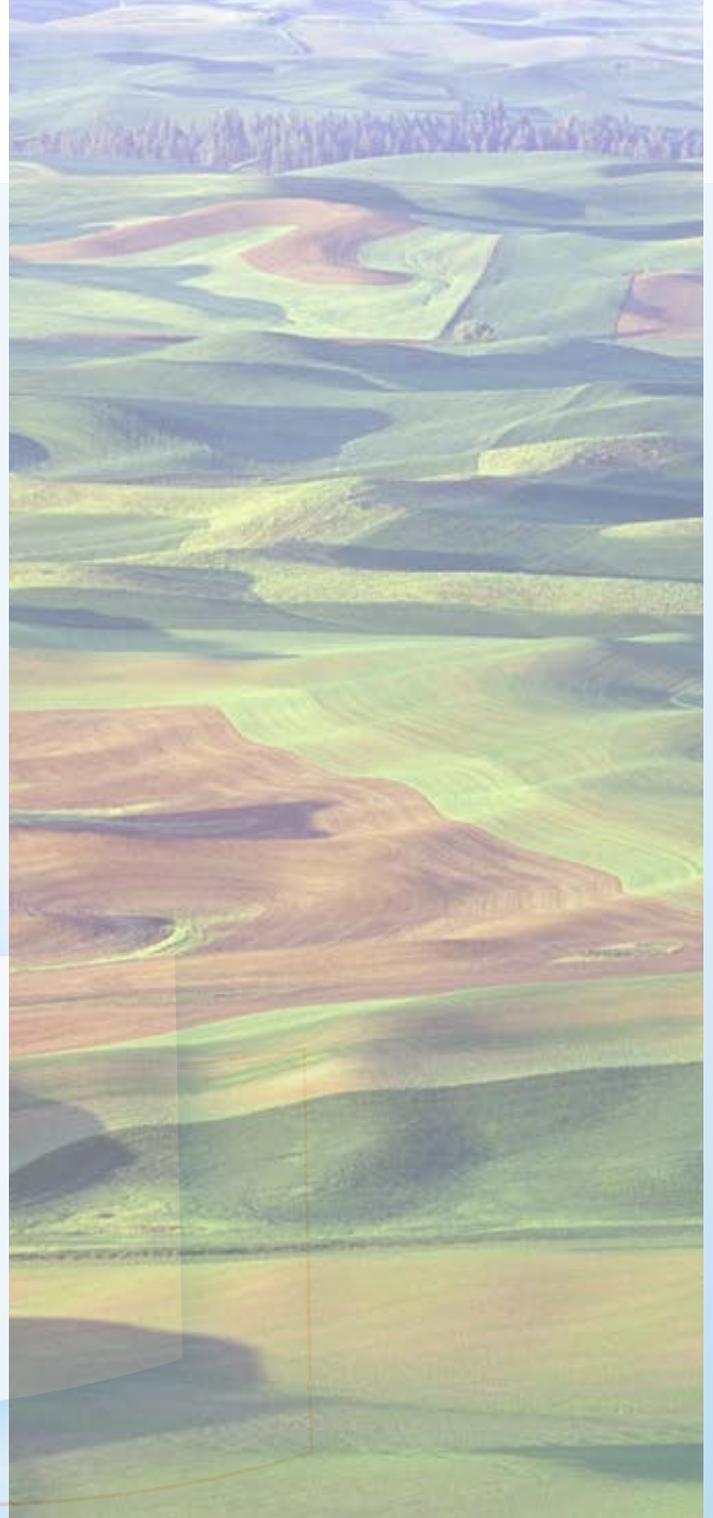
Today's Environmental, Health and Safety (EH&S) teams benefit greatly from the regulatory compliance efficiencies introduced by the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). Developed through the collaboration of nearly 70 countries, GHS is a worldwide regulation for classifying and communicating chemical hazards using Safety Data Sheets (SDSs) and shipping labels.

GHS helps organizations achieve legal compliance with greater certainty while streamlining compliance-dependent business processes such as the manufacturing, authorization, shipment, importing and exporting of chemicals. GHS classifications use physical chemical end-point data to determine which pictograms, hazard (H) statements and precautionary (P) statements should appear on SDSs and labels.

While this harmonizes many hazard communications between countries, GHS still includes some country-specific data requirements. Without the right software for ensuring compliance according to region and country-specific rules and regulations, the process is difficult, expensive and cumbersome. Costly and time-consuming errors can result. Fortunately, Lisam Systems has provided a solution.

At Lisam Systems, we have been supplying customers with an effective software platform and strategy for GHS compliance since 2005. Our flagship product, ExESS® provides a comprehensive, modularized, cost-effective solution that empowers your EH&S teams to achieve and automate GHS compliance. ExESS addresses both domestic needs and compliance for countries and regions in all major commercial markets around the world.

ExESS provides tools for important functions such as accessing current substance classification lists, performing automated classification calculations, and rapidly generating and delivering the SDSs and shipping labels necessary to comply with location-specific regulations. Lisam Systems offers flexible licenses so you pay only for the countries or regions you need, knowing you can add scope later with technical and licensing ease.



GHS Classifications Based on Physical State, Toxicological and Ecotox Data, or Official Lists

ExESS can classify a substance using chemical data, official lists, manual selection, or any combination of the three. To use chemical data, you enter physical parameters such as boiling points and flash points as well as general or country-specific toxicological and ecotox data in ExESS. The software does the calculation for you at the click of a button.

If you prefer to use a list, ExESS also provides substance classifications based on official lists across a variety of countries and regions. If you choose to manually select a hazard statement, ExESS automatically populates the right pictograms associated with them.

To keep your data-entry tasks to a minimum, ExESS re-uses fields whenever data can be shared between countries and regions. Furthermore, ExESS is able to link to many third-party databases to facilitate the creation of SDSs and labels. Standard license options include the ChemADVISOR LOLI® Database, Japanese Chemicals Database (JCDB), BIG database, and Qualisys supplemental data.

Ability to Classify Both Substances and Mixtures

ExESS classifies both substances and mixtures according to GHS. ExESS allows you to identify the GHS classification of a mixture through a formulation analysis of the mixture's composition and chemical data. This can be useful during the research and development stage as you test different formulations to determine the resulting classification. Companies in countries where mixture classifications are not yet required on the SDS will benefit by having this capability in place early so compliance will go smoothly when the regulatory deadline nears.

Updates for Existing SDSs and Labels

GHS requires companies worldwide to change their SDSs and labels. With its ease-of-use and rapid processing capabilities, ExESS is the best solution for automating the creation, revision, distribution and management of these materials. It is critical to continuously remain compliant with the latest GHS regulation amendments. However, if you attempt to do this manually, maintaining and tracking changes and versions can be a nightmare. With ExESS, easy version tracking and software upgrades ensure



ongoing compliance with the latest GHS regulation amendments.

Justification Reporting for Peer Review

In addition to automating the classification of substances and mixtures, the ExESS classification calculator generates a report that displays the information about the substance or composition that resulted in the classification decision. All variables used by the classification calculation algorithm are displayed along with the classification. This report provides the basis for every decision made by the software during the classification process. You can view the report online, or export it to Excel® spreadsheet software and share the information with parties who want to see the justification for the GHS classification.

Time Savings via ExESS Product Families and Inheritance

If you have products that share certain hazards, you can create an ExESS product family that defines the hazard characteristics and includes the appropriate phrases. For example, you might create a corrosives family, a flammables family and more. You can then associate families with products. Products “inherit” the relevant families, thus linking the products to the hazard characteristics.

This is a powerful way to minimize data re-entry and maintenance. By defining hazards once within a product family and then associating families with products, you can maintain and update hundreds of products simply by maintaining and updating the families. To change a hazard characteristic, you go to the product family and change the characteristic once. The characteristic is automatically changed for all products associated with that product family. This is far more efficient than cutting and pasting characteristics for each and every product. Not all EH&S companies offer this time-saving capability.

Registration and Authorization Assistance

When purchasing chemicals from a supplier, you can use ExESS to see if they are registered. If you have a chemical that requires registration and authorization in the EU, ExESS enables you to exchange information with the IUCLID® system, the free downloadable software from the European Chemicals Agency (ECHA). ExESS also supports the Classification and Labeling (C&L) Notification.

Best GHS Software Investment

Why is ExESS the best software investment for achieving GHS compliance? In addition to the above advantages, here are more ways ExESS stands out from the competition:

Rapid, accurate SDS authoring:

ExESS provides accurate SDSs in 40+ languages specific to a wide range of countries and regions. SDSs can be automated and delivered via email. This provides the speed and convenience required for efficient business processes, particularly when dealing with high volumes.

First-hand participation in GHS standards development

ExESS users have the benefit of our early involvement in the development, creation and implementation of the GHS guidelines. We have invested extensive resources to participate in working groups, associations and federations, providing input to the regulators and assistance with developing GHS in ways relevant to the needs of EH&S teams. ExESS addresses the practical concerns that were raised in the process of defining GHS.

Achieving legal compliance in all key global markets

We are highly knowledgeable with respect to GHS regulations and guidelines, and we designed ExESS to be used in all major commercial markets worldwide. Because legal compliance is essential, ExESS is your ideal choice. Standard in-house tools are likely to generate incorrect SDSs and labels. In addition, many GHS software vendors lack our experience, knowledge and ability to apply GHS in practical ways across all applicable criteria using scalable and flexible software technology. We are committed to helping our customers achieve GHS legal compliance through ExESS, particularly with respect to SDSs and labels.

Easy-to-use Microsoft® platform

Many EH&S teams are comfortable with Microsoft applications' familiar look-and-feel. We developed ExESS within an environment that is fully compliant with the Microsoft Office® suite, eliminating the need to learn a new, complex system. ExESS creates SDSs and labels in Microsoft Word and in Microsoft Excel spreadsheet software, facilitates Microsoft Excel and Microsoft Access® data import, leverages Microsoft Outlook® messaging and exchanges information

with mail-merge systems. ExESS enables your EH&S team to easily automate the process of sending SDSs and label information to your customers. ExESS also integrates smoothly with Microsoft-based enterprise resource planning (ERP) systems.

Critical link between IT systems

ExESS is an essential link between ERP and other information technology (IT) systems, bringing together critical data for chemicals management. The ExESS solution is also Substance Inventory Management System (SIMS) compliant.

Competitive pricing

The rich functionality of the solution suite combined with low pricing make ExESS an excellent value. Compared to similar offerings, ExESS delivers far more for your money. In addition, many companies pay high fees to consultants or third parties to create labels and other materials that can have questionable accuracy. Efficiencies achieved with ExESS save time and money, rapidly leading to a substantial return on investment (ROI).

Impact on Critical EH&S Functions

GHS compliance is an essential internal development requirement across the Lisam Systems product line. For SDS authoring, ExESS calculates GHS classifications and applies the format required for country- and region-specific compliance. When generating labels, you can be confident that the information fully complies with the destination's legal requirements.

ExESS applies GHS regulations for our chemical management capabilities - including inventory management and safety management - according to rules for chemicals storage and handling, workplace risk, and workplace safety. ExESS generates workplace inventory and Workplace Safety Instruction Cards with information about safe chemical use and handling in the workplace.

Many content libraries are available for use with ExESS. The software allows you to find the correct GHS classification of a substance through calculations and also gives you the option of drawing directly upon integrated content libraries. Some examples of ExESS content libraries that contain GHS classification content include the Chem ADVISOR LOLI Database, Annex VI for Europe, the Toxic Substances Control Act (TSCA) list for the United States, the National Institute of Technology and Evaluation (NITE) list for Japan

and many others. GHS information consists of lists as well as the chemical, physical, toxicological and ecotox data needed for GHS classifications.

General, Regional and Country-Specific GHS Compliance

ExESS supports the general definition of GHS as established by the United Nations (UN) and specified in the UN's "Purple Book." In addition to this broad interpretation, ExESS also provides regional and country-specific support.

In the coming years, additional countries will continue to adopt GHS, resulting in increasingly diverse location-specific requirements. As this occurs, Lisam Systems will continue to keep our GHS-compliance dynamic and integrate many such country-specific GHS capabilities into ExESS.

We know legal compliance is critical for companies shipping chemicals to various global locations.

The following have specific GHS data versions available in ExESS, based on our belief that they require targeted GHS solutions.

ExESS SDS template formats as of version 15.1:

The current available regions are: UN, EU, Japan, Taiwan, South Korea, Brazil, China, US, Mexico, Canada, Singapore, Thailand, Australia, Malaysia.

GHS classification calculators in ExESS version 15.1:

Available for the following countries and their directives: CLP, UN, EU, United States, Canada, Mexico, Brazil, Japan, China, South Korea, Australia, Taiwan, Thailand, Singapore.



About Lisam Systems

Lisam Systems is an established international provider of Environmental Health and Safety (EH&S) compliance management software solutions and services. Our flexible, user-friendly and cost-effective solution empowers over 800 clients worldwide to reduce their costs, improve processes, and minimize the risk of non-compliance with global regulations, such as GHS and REACH. Our enterprise-wide solution, ExESS®, creates, manages and distributes GHS-compliant safety data sheets (SDS) and labels for all major commercial markets. It leverages fully integrated regulatory and transportation content libraries and can generate output in almost 50 languages. Specialized vertical compliance modules are also seamlessly integrated within ExESS, offering an automated solution and access to industry-specific regulatory information.

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