



3E Online® - SDS

Flexible, scalable, efficient online SDS management for companies of all sizes and industries.



SILVER
GOLD
PLATINUM

Overview

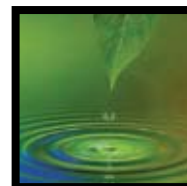
3E Online-SDS is a powerful combination of outsourced services and an easy-to-use web-based application providing access to a customer's chemical inventory and associated Safety Data Sheets (SDSs) 24-7-365. Instant Internet access, coupled with unprecedented round-the-clock support, provides companies a highly efficient and affordable method for complying with environmental, health and safety (EH&S), hazard communication and workplace safety regulatory requirements.

3E Company's chemical and SDS management tools and services offer a wide range of functionality to meet the needs of a broad and diverse customer base. Our programs cater to companies of all sizes and industries, doing business in nearly any country. The interface supports a variety of languages, making this an ideal solution for companies with a multi-lingual workforce, or with facilities in various countries.

3E has tiered its online management offerings, providing the ultimate flexibility to customers who have diverse compliance needs. Companies can choose from three editions: 3E Online-MSDS Silver, Gold or Platinum. A variety of add-on enhancement modules are also available, ensuring customers only pay for the functionality they need. As companies' compliance needs evolve, customers can migrate to the advanced version best suited to their needs.



3E Online provides a simple, easy-to-use interface for quick access to important information.



Trusted Global Provider of Chemical, Regulatory & Compliance Information Services

3E Advantages

3E Company made a name for itself by offering the industry's leading SDS management solutions. It is the service and infrastructure behind our online interface that makes the difference. All 3E SDS management customers have access to these powerful value-added resources and services.

Full Service SDS Management

3E's full service simplifies the process for you and truly relieves the burden of SDS Management. Simply send us a list of products and let 3E take care of the rest. Our all-inclusive approach includes matching your product list to the most current SDS, acquiring new SDSs directly from the manufacturer on your behalf, and indexing up to 20 fields of data from each SDS for use within 3E Online, including GHS classification and labeling information.

Global Manufacturer Relations

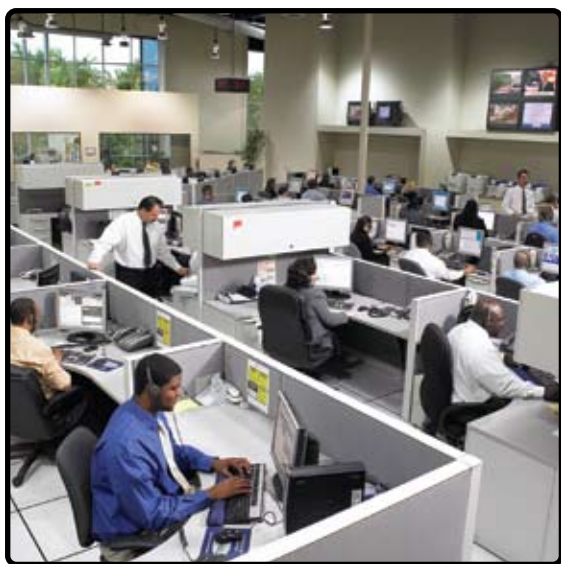
3E does not simply collect SDSs that are available from free websites, but has spent more than two decades assembling and maintaining its SDS database via its Manufacturer Alliance Department. This team consists of dedicated, full-time specialists who collect and obtain SDSs directly from, and maintain relationships with, tens of thousands of manufacturers all over the world. They are singularly focused on striving to ensure that the most recent version of the SDS you need, in the jurisdiction and language needed, is always at your fingertips.

Round-the-Clock Support

The world-renowned 24-7-365 3E EH&S Mission Control Call Center handles thousands of calls each week to assist customers with issues as simple as SDS requests, to chemical spills and poison exposure emergencies, to large scale natural disasters.

EH&S Expertise

3E has built a world-class organization serving tens of thousands of customers around the world, ranging from Fortune 500 corporations to small, family-owned businesses. 3E invests heavily in attracting and retaining employees with deep EH&S domain expertise, and from a wide variety of industries and backgrounds. EH&S professionals find comfort in knowing that the products and services they depend on are built by their peers, who understand the business and burden of global EH&S compliance.



"3E Company moves its way into outsourced MSDS management leadership."

- AMR Research (now Gartner)

Winner of nine Workplace HR & Safety Magazine Commitment to Worker Safety Awards

Six-time winner of Environmental Business Journal's IT Merit Award

Winner of four Occupational Health & Safety Magazine's Product of the Year Award



Simple Implementation Options

Implementing a successful SDS management program starts with establishing a baseline inventory of SDSs. However, anyone who has managed SDSs understands that this can be one of the most challenging aspects of effective SDS management. That is why 3E provides several options for accomplishing this:

Provide 3E a list of products

Your assigned Service Integration Specialist can provide you a simple template for you to complete with your product inventory. Once you return the list to us, we'll cross reference the items with our massive database and create a product catalog specific to your company. Whether you are migrating from a legacy system or pulling data from your

existing ERP, this process simplifies the implementation process.

Send 3E your SDSs

Send your electronic or hard copy SDSs to us and we'll do all the work to get them into the system.

Build your own inventory

While many customers are happy to let 3E assume this burden, customers also have the option of building their catalog themselves, choosing SDSs from 3E's vast repository. If the SDS is not available you can upload the image to 3E for processing and indexation.

Inventory Assessment

Not sure what chemicals exist or where they are being used? Don't have an up-

to-date list of SDSs? For an additional fee, 3E can send an inventory specialist to any North American location to conduct a full chemical inventory assessment.

Obtainment from the manufacturer

When you choose the appropriate edition for your organization—Silver, Gold or Platinum—you also specify the global regions from which you would like 3E to obtain SDSs.

If we find there are products in your inventory that require an SDS for which we don't already have in our database, we will acquire it directly from the manufacturer on your behalf.

Ongoing Maintenance and Support

Robust management and reporting features

Once the company catalog is built, customers can update, add, or delete products from their catalog, as well as run reports. Product inventory changes are available real-time in both summary and detail format. Custom fields can also be added at any time and are visible to all employees.

Updates and Revisions

A combination of technology and services ensures the currency of our customers' SDSs. 3E's Data Center Specialists are continually reviewing SDSs while our proprietary web software constantly crawls the Internet for SDS updates daily. As SDSs are updated, the system proactively alerts your company's administrator via email. 3E is committed

to ensuring the most current sheet is available to customers and assuming this burden on their behalf is one of the many advantages to using 3E Online-SDS.



3E Online[®] - SDS



Features at a Glance

Dashboard

Home page includes metrics summarizing key activity, providing easy-to-read graphical representation of regulatory changes and actions taken within the application.

Secondary Container Labeling

Create secondary container labels covering Global GHS, US, Canadian, EU, generic PPE and Barcode templates.

Document Attachments

Provides the ability to upload additional documents associated with each product, such as Technical Data Sheets, in multiple formats and languages.

Access to Historical Records/SDS Archiving

Expired SDSs are archived and accessible from the application at any time.

Audit and Inventory Reporting

Generate many reports that detail inventory and user activity.

Web-based Training

Ensure your employees know how to use the system. Web-based training is scheduled upon implementation and at any time throughout the terms of your subscription.

Mobile Access

Access to 3E Mobile-SDSs, a site optimized for easy viewing and display on smart phone devices.

Unlimited Users

There is no limit, or associated fees, to the number of users or administrators that can access and use the system.

Language Localization

The interface supports a wide variety of languages, enabling users to use 3E Online in their native language.

3E SDS On Demand® Backup

Export all SDS from 3E Online at any time. Plus, 24-7-365 live assistance via phone for SDS requests when Internet is not available.





| Advanced Features | Silver | Gold | Platinum |
|---|---------------|-------------|-----------------|
| <p>Regulatory Lists</p> <p>3E Online is enhanced with a core sub-set of Ariel® data, which contains EH&S regulations and associated chemical lists, updated monthly. Users can search their chemical inventory to identify regulated or potentially regulated products and chemicals.</p> | | ● | ● |
| <p>Chemical Approval</p> <p>Enables customers to effectively manage and control what chemicals enter a given facility by providing the designated Approval Manager the opportunity to review SDSs and other product information prior to purchase.</p> | | ● | ● |
| <p>Custom Lists</p> <p>Create custom lists based on specific ingredients, CAS RN or a collection of regulatory lists to create specific queries within the application.</p> | | ● | ● |
| <p>Regulatory Candidate Lists and Threshold Reports</p> <p>Generate Candidate Lists, either by product or by chemical, that detail a chemical inventory against US DHS lists, US SARA Title III Sections 311/312/313, and European Substance Volume Tracking (SVT) requirements.</p> | | ● | ● |
| <p>US Fire Code Classification</p> <p>View products classified using the National Fire Protection Association (NFPA) and Hazardous Materials Identification System (HMIS) ratings. Products can be classified according to NFPA standards, Uniform Fire Code, BOCA National Fire Prevention Code, and SBCCI Standard Fire Prevention Code.</p> | | ● | ● |
| <p>SDS Revision Alert</p> <p>Proactive notification alerts users when an SDS in their inventory has changed and identifies the nature of the change via a side-by-side comparison of the old SDS next to the revised version. The effected information is highlighted for quick and easy reference in an email to any designated user.</p> | | | ● |
| <p>3E-Ariel RegImpact</p> <p>For customers who need access to global regulatory content, this module provides Ariel WebInsight subscribers access to their Regulatory List Bundles and My WebInsight Queries in 3E Online. Lists and Queries can be cross-referenced against the composition of all products stored in 3E Online on mass, or filtered to raw materials and finished goods.</p> | | | ● |
| <p>Enhanced Chemical Search</p> <p>Users can view and search substances in their inventories based on an even wider variety of search criteria, including Molecular Formula, EINECS Number, ELINCS Number, EU Annex 1 Index Number, Japan ENCS, Japan ISHL or Korean ID numbers.</p> | | | ● |
| <p>Data Modification</p> <p>Designated Platinum administrators can adjust percentages and add chemicals to the SDS ingredient list, and modify product properties at the location level, including VOC data, Physical State, Specific Gravity and Density Information.</p> | | | ● |

Indexation: Capturing and providing access to key data from the SDS

In addition to the image of the SDS itself, key data fields are captured to enable easy searches by any number of values specified. The type of infor-

mation and level of detail of the data indexed determines which edition is right for you. 3E's team indexes global SDSs in many languages and uses strict

quality control procedures to ensure that SDSs are indexed accurately, to your specifications.

| Key Data Fields | Silver | Gold | Platinum |
|---|-----------------|-----------------|----------|
| Product Name | • | • | • |
| Manufacturer Name | • | • | • |
| Manufacturer Part Number | • | • | • |
| Composition, Min & Max Percentages | | • | • |
| Product Properties | | • | • |
| Hazard Classification (GHS/CLP, US NFPA, HMIS, Canadian WHMIS and EU R&S Phrases) | | • | • |
| REACH Registration Number | | • | • |
| REACH eSDS Flag | • | • | • |
| PPE (Personal Protective Equipment) | Optional add-on | Optional add-on | • |
| Handling and Storage | Optional add-on | Optional add-on | • |
| First Aid | Optional add-on | Optional add-on | • |

Integration with other systems

There are many departments within an organization that can benefit from the content in 3E Online. Integrating it with other business applications enables all stakeholders to access SDS and product data for many compliance requirements ranging from fulfilling employee right-to-know requirements, to regulatory tracking, supply chain analysis, product

stewardship and purchasing activities. 3E can provide seamless integration of SDS data with any other platform, including:

- **3E's own MSDgen® SDS Authoring System**
- **SAP® EHS Management via ADM®-VSIDS**
- **SAP® Material Management Module via ADM-VSIDS**

- **Biovia's CISPro® via 3E SDS Management for CISPro**
- **SciQuest's Enterprise Reagent Manager via 3E SDS Management for SciQuest**
- **Enablon and Kelaroo Integrations**





3E Online® - SDS Enhancement Modules

Beyond the standard features included in 3E Online®-SDS Silver, Gold and Platinum Editions, are a number of additional optional enhancements to choose from, depending on the organization's EH&S compliance needs. Providing flexible, modular options ensures customers only pay for the functionality they need.

Onsite Inventory Assessment

Not sure what chemicals exist at your facilities? 3E can provide a convenient, site-specific inventory by sending an inventory specialist on-site.

Transportation Classification

3E's classification team can classify a customer's inventory for many modes of transport and then provide access to the data through the 3E Online interface. Users can view classification data by product, view required labels for product shipment and print markings. Reports are also available by inventory location

that provide information by main hazard class or by regulated versus non-regulated products.

Waste Classification

This module provides access to waste classification codes for products in inventory for which 3E has performed waste classification, enabling users to quickly access classification data online and proceed accordingly, streamlining the process and taking the guesswork out of identifying and classifying hazardous waste. This information can also be accessed via a SmartPhone using 3E Mobile-SDS.

US EPCRA Reporting

Gather and analyze chemical and product data from your inventory for federal and several U.S. state SARA Tier II EPCRA reports. Interface enables the generation and submittal of the report online. Data can be exported as well in a variety of formats.

Green Product Analyzer (GPA)

By leveraging 3E's global CAS level regulatory profiles and chemical classification data, 3E GPA can provide intelligence regarding the chemical constituents used in a company's products and their associated toxicity, health and environmental hazards.

Users utilize 3E's green grading system to yield results that enable them to make better purchasing decisions or source alternative products that will better support their sustainability goals.

Safety Cards

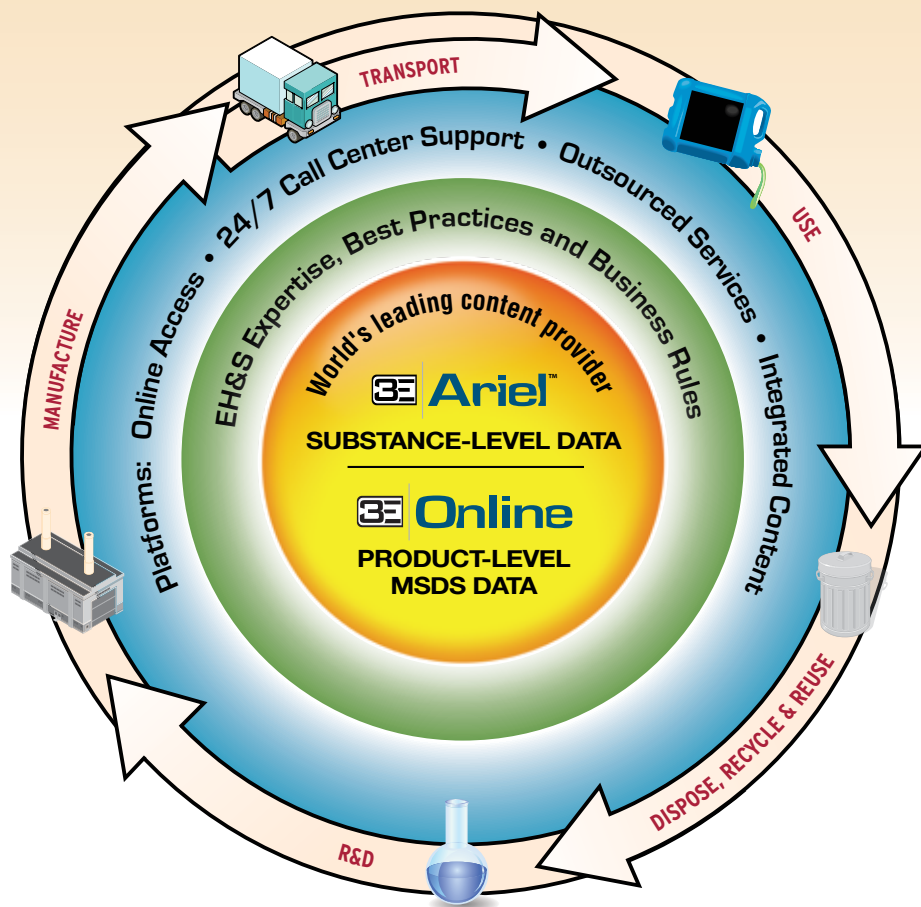
For organizations, especially those operating within Europe that are required to provide Safety Cards to employees, the Safety Card Module enables the quick and easy creation of these cards, which provide employees an at-a-glance view of the most critical safety aspects of handling hazardous products.

Phone stickers, wallet cards and posters are provided for you to display through out your facility and provide to your employees.



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

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 by driving the company's overall compliance strategy, not bogged down with paperwork or the administrative burdens associated with maintaining

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.

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