



Chemical Safety

www.chemicalsafety.com

ENVIRONMENTAL MANAGEMENT SYSTEMS (EMS)

DEMO USER GUIDE

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Welcome to Chemical Safety's EMS Software.

To get you started with EMS we have prepared a process to help you learn how EMS works. In this process you will be able to navigate through our system with sample data that you can easily export from our Chemical Inventory dashboard, add sample data using, import it to EMS system and have access to several key functions that demonstrate the capabilities of the EMS software.

The following picture represents the Dashboard you see once you log in.



Dashboard Icons:



1. **1. Export Sample Chemical Inventory** Export a sample chemical inventory file that can be imported into EMS to cross-reference chemicals with storage and safety information



2. **2. Import Containers from EXCEL** Import chemical inventory file into EMS. Chemical Inventory is cross-referenced with storage and safety information.



3. **3. Chemical Containers** View and edit your chemical Inventory containers



4. **4. My SDS Binder** View binder of SDS associated with your chemical inventory



5. **5. Site SDS** View SDS for your site/facility



6. **6. Global SDS Library** View Chemical Safety's Global SDS Library and find SDS to add to your SDS binder or Site SDS list



7. **7. Disposal Request** Generate a waste pickup



8. **8. Default Dashboard** Click to open the Default Dashboard that will provide you access to all EMS functions (administrative users)



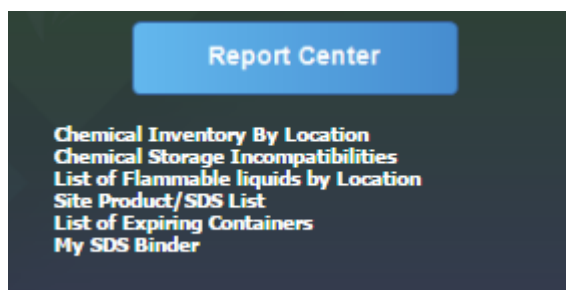
9. **Chemist Dashboard** Click to open the Chemist Dashboard. This Dashboard is mainly used by chemical users and Principal Investigators.



10. **Waste Dashboard** Click to open the Waste Management Dashboard. This dashboard is intended for waste handlers and other waste management personnel tasks with the pickup, storage and disposal of waste.

Report Center

For demonstration purposes we have created six Adhoc reports as shown below, which you can run by clicking on the report name. As a registered or licensed user, you will have the ability to create and customize reports in your dashboard that are most useful for your work.



1. Chemical Inventory by Location: In this report you can view all the chemicals listed by location, showing the quantity by container, the container barcode number and the quantity converted to gallons.
2. Chemical Storage Incompatibilities: In this report you can view certain hazardous chemicals that are incompatible to store under the same location due to hazard class or chemical classification incompatibilities.
3. List of Expiring Containers: In this report you can view a list of containers that have expired or will expire within the next 10 days (this can be customized for any timeline as desired).
4. List of Flammable liquids by Location: In this report you can view flammable liquids (DOT hazard class 3) stored in your location.
5. Site Product/SDS List: In this report you can view all SDS's in your site.
6. My SDS Binder: In this report you can view all SDS's for your chemical inventory.

How to use EMS:

Step 1: By clicking the “Export sample Chemical Inventory” icon the following pop up will appear:

Create sample chemical inventory file

Email to: ...

Click OK to download a sample Chemical Inventory file in Excel
(Make sure to disable any popup blockers on your browser)
 or enter your email address to have the file sent to you.

Ok Cancel

Enter your email if you want to receive the excel file in your email or click OK to download the file.

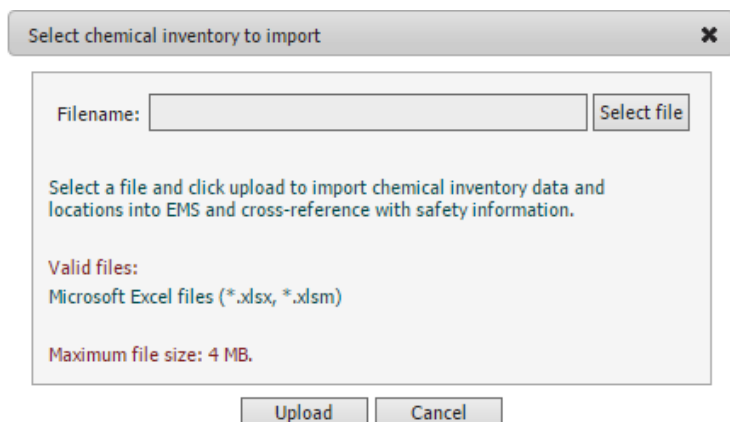
By clicking OK, you will see a new message box for you to open or save the file. (depending on your browser the message box might be different)

Here is what the excel file looks like. This inventory template is designed to provide all the critical information needed to import and manage a chemical inventory.

BARCODE	CHEMICAL	MANUFACCAS	CONT. TYF	QUANTITY	PHYS. STA	UNIT	LOCATION	ROOM	DEPARTM	BUILDING	FACILITY	REVISION
2205400	ACETIC AC	FISHER SCI 64-19-7	BUCKET	100	LIQUID	GRAM	SHELF 2	C2	STORAGE	STORAGE	IUNIVERSIT	2/24/2016
2205401	AMMONIU	FISHER SCI 1336-21-6	BOX	5	LIQUID	GALLONS	SHELF 2	C2	STORAGE	STORAGE	IUNIVERSIT	12/30/201
2205402	TRIMETHY	PRAXAIR 993-07-7	FIXED PRES	3	GAS	CUFT	SHELF 2	C2	STORAGE	STORAGE	IUNIVERSIT	3/18/2016
2205403	ABAMECTI	ALFA AESA 71751-41-	BAG	5	SOLID	GRAM	SHELF 2	C2	STORAGE	STORAGE	IUNIVERSIT	3/5/2013
2205404	Ammonium	EMD Milli 7727-54-0		5	SOLID	GALLONS	SHELF 2	C2	STORAGE	STORAGE	IUNIVERSIT	11/4/2014
2205405	ACETONE	AVANTOR 67-64-1	BOX	4	LIQUID	LITERS	SHELF 1	A1	STORAGE	STORAGE	IUNIVERSIT	6/17/2014
2205406	BENZENE	SIGMA AL 71-43-2	GLASS BOT	6	LIQUID	GALLONS	SHELF 1	A1	STORAGE	STORAGE	IUNIVERSIT	3/27/2015
2205407	CHLORINE	PRAXAIR 7782-50-5	PLASTIC BC	5	LIQUID	GALLONS	SHELF 1	A1	STORAGE	STORAGE	IUNIVERSIT	4/9/2015
2205408	ZINC SULF	EMD MILLI 7446-20-0	BOX	10	SOLID	POUNDS	SHELF 1	A1	STORAGE	STORAGE	IUNIVERSIT	2/3/2015
2205409	VALINOMY	ACROS OR 2001-95-8	PLASTIC BC	5	SOLID	KILOGRAM	SHELF 1	A1	STORAGE	STORAGE	IUNIVERSIT	2/10/2015
22054010	1 BUTENE	PRAXAIR 106-98-9	FIXED PRES	2	GAS	CUFT	SHELF 1	A1	STORAGE	STORAGE	IUNIVERSIT	2/20/2015
22054011	ZINC SULF	EMD MILLI 7446-20-0	BOX	10	SOLID	POUNDS	SHELF 1	A1	STORAGE	STORAGE	IUNIVERSIT	2/3/2015
22054012	VALINOMY	ACROS OR 2001-95-8	PLASTIC BC	5	SOLID	KILOGRAM	SHELF 1	A1	STORAGE	STORAGE	IUNIVERSIT	2/10/2015
22054013	1 BUTENE	PRAXAIR 106-98-9	FIXED PRES	2	GAS	CUFT	SHELF 1	A1	STORAGE	STORAGE	IUNIVERSIT	2/20/2015
22054014	ZINC SULF	EMD MILLI 7446-20-0	BOX	10	SOLID	POUNDS	SHELF 1	A1	STORAGE	STORAGE	IUNIVERSIT	2/3/2015
22054015	ZINC SULF	EMD MILLI 7446-20-0	BOX	10	SOLID	POUNDS	SHELF 1	A1	STORAGE	STORAGE	IUNIVERSIT	2/3/2015
22054016	VALINOMY	ACROS OR 2001-95-8	PLASTIC BC	5	SOLID	KILOGRAM	SHELF 1	A1	STORAGE	STORAGE	IUNIVERSIT	2/10/2015
22054017	VALINOMY	ACROS OR 2001-95-8	PLASTIC BC	5	SOLID	KILOGRAM	SHELF 1	A1	STORAGE	STORAGE	IUNIVERSIT	2/10/2015
22054018	1 BUTENE	PRAXAIR 106-98-9	FIXED PRES	2	GAS	CUFT	SHELF 1	A1	STORAGE	STORAGE	IUNIVERSIT	2/20/2015
22054019	1 BUTENE	PRAXAIR 106-98-9	FIXED PRES	2	GAS	CUFT	SHELF 1	A1	STORAGE	STORAGE	IUNIVERSIT	2/20/2015

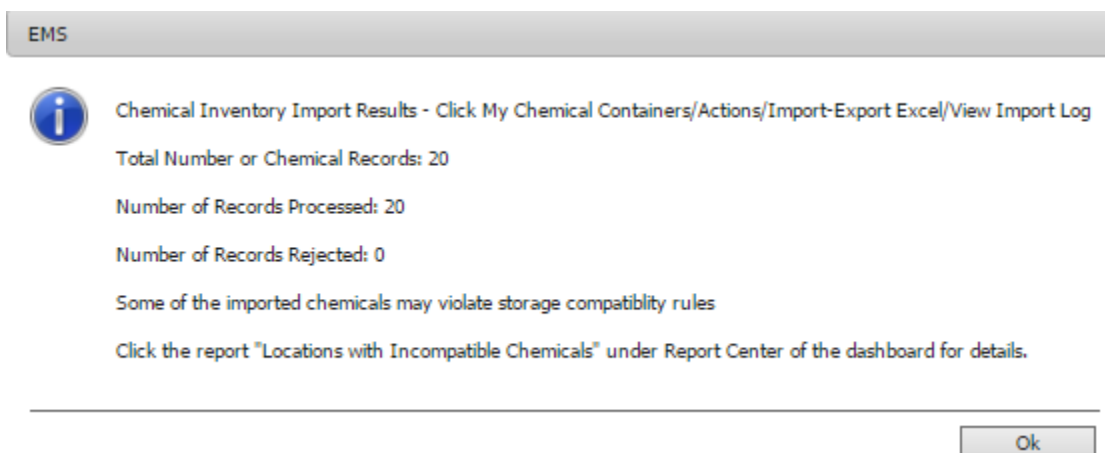
Step 2: Click the “*Import Chemical Inventory file*” to import the sample data in EMS Software. You can also use this excel template to import your own chemical inventory. Please note that the import has been set to a limited number of records for this demo access.

The following message box will appear:



Once you select your file and click upload, EMS will import and process the chemical inventory import file, create location and chemical container information and connect the inventory to SDS and GHS data.

When the import is completed, the following message will appear:



This message gives you information after importing your data of how many records were processed and if any were rejected. The Import Log provides details on why import records, if any, were rejected.

Step 3: By clicking the “Chemical Containers” you have a list of all containers added to your inventory. EMS Chemical Inventory helps you track, manage and update chemical containers quickly and easily. The screen below shows you a summary list of all your chemicals in the locations you are responsible for. Rejected records will not show in this list.

20 records									
BARCODE	PRODUCT NAME	LOCATION	ROOM	CAS#	TOTAL QTY	UOM	# OF CONT.	(M)SDS	
2183500	ACETIC ACID	SHELF 2	C2	64-19-7	100	GRAM	1	(M)SDS	>
2183501	AMMONIUM HYDROXIDE	SHELF 2	C2	1336-21-6	5	GALLONS	1	(M)SDS	>
21835020	ABAMECTIN	SHELF 2	C2	71751-41-2	5	GRAM	1	(M)SDS	>
21835011	ACETONE	SHELF 1	A1	67-64-1	4	LITERS	1	(M)SDS	>
21835012	BENZENE	SHELF 1	A1	71-43-2	6	GALLONS	1	(M)SDS	>
21835013	CHLORINE GAS	SHELF 1	A1	7782-50-5	5	GALLONS	1	(M)SDS	>
21835017	Zinc sulfate heptahydrate for analysis EM...	SHELF 1	A1	7446-20-0	10	POUNDS	1	(M)SDS	>
21835018	Valnoicyn	SHELF 1	A1	2001-95-8	5	KILOGRAMS	1	(M)SDS	>
21835019	1 Butene C4H8	SHELF 1	A1	106-98-9	2	CUFT	1	(M)SDS	>
21835021	Zinc sulfate heptahydrate for analysis EM...	SHELF 1	A1	7446-20-0	10	POUNDS	1	(M)SDS	>
21835022	Valnoicyn	SHELF 1	A1	2001-95-8	5	KILOGRAMS	1	(M)SDS	>
21835023	1 Butene C4H8	SHELF 1	A1	106-98-9	2	CUFT	1	(M)SDS	>
21835024	Zinc sulfate heptahydrate for analysis EM...	SHELF 1	A1	7446-20-0	10	POUNDS	1	(M)SDS	>
21835025	Valnoicyn	SHELF 1	A1	2001-95-8	5	KILOGRAMS	1	(M)SDS	>
21835026	1 Butene C4H8	SHELF 1	A1	106-98-9	2	CUFT	1	(M)SDS	>
21835027	Valnoicyn	SHELF 1	A1	2001-95-8	5	KILOGRAMS	1	(M)SDS	>
21835028	1 Butene C4H8	SHELF 1	A1	106-98-9	2	CUFT	1	(M)SDS	>
21835029	ABAMECTIN	SHELF 2	C2	71751-41-2	5	GRAM	1	(M)SDS	>
21835037	Zinc sulfate heptahydrate for analysis EM...	SHELF 1	A1	7446-20-0	10	POUNDS	1	(M)SDS	>
2183509	Trimethylolane C3H10Si	SHELF 2	C2	903-07-7	200	CUFT	1	(M)SDS	>

Click to view SDS sheets and GHS labels
 Click to edit a container record
 Click to view container details

By clicking the “(M)SDS button, the following window will appear:

(M)SDS ✕

View and print SDS for container

English English View MSDS/SDS


English 1 GHS GHS LABEL View Label / Hazard / PPE Data













View and print GHS Labels View Shipping Info

HTTP MSDS/SDS Reference: <https://www.fishersci.com/shop/msdsproxy?productName=A465250&productDescription=> ...

Archived MSDS/SDS files **View previous SDS versions**

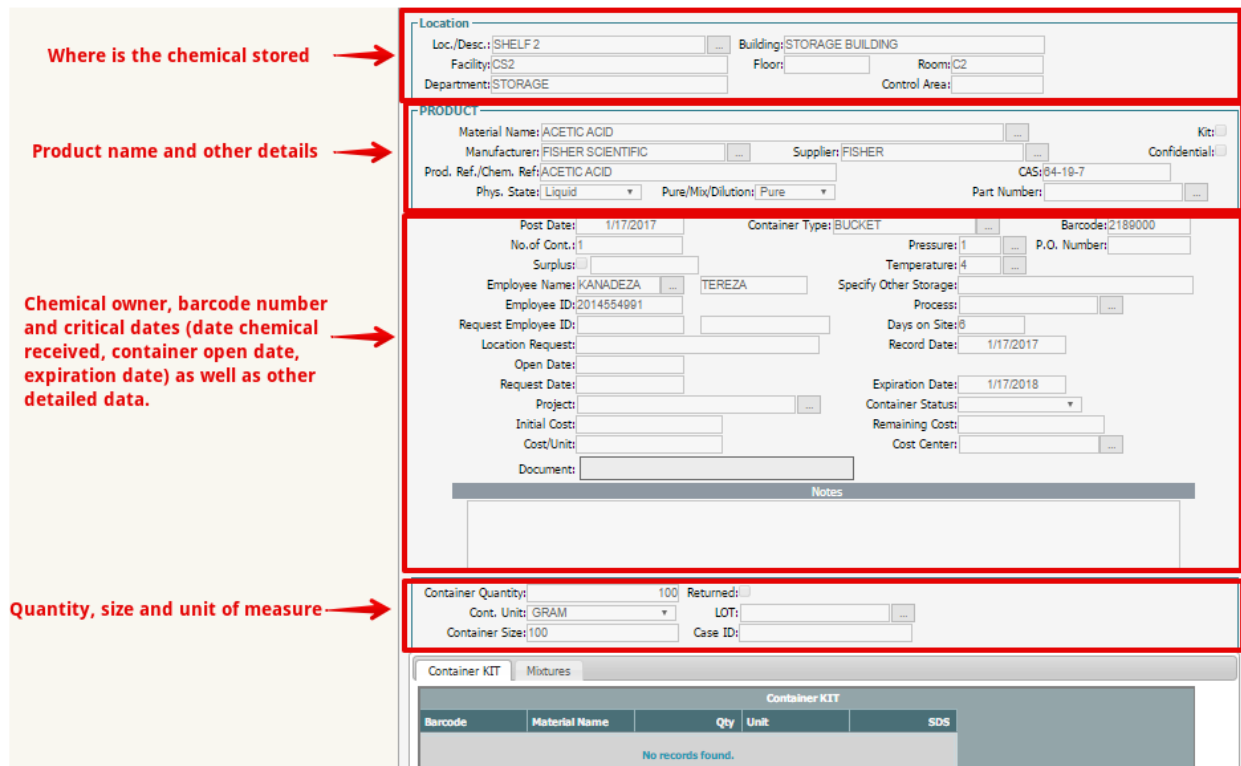
Select File	Language	File	Backup date
Clear File	English	EN2149994_1.pdf	1/12/2017 4:09:05 AM
View Image			

By clicking the edit or arrow  button you will open the record of the selected container.

6 records									
BARCODE	PRODUCT NAME	LOCATION	ROOM	CAS#	TOTAL QTY	UOM	# OF CONT.	(M)SDS	
2203700	ACETIC ACID	SHELF 2	C2	64-19-7	100	GRAM	1	(M)SDS	 
2203701	AMMONIUM HYDROXIDE	SHELF 2	C2	1336-21-6	5	GALLONS	1	(M)SDS	 
22037010	1 BUTENE C4H8	SHELF 1	A1	106-98-9	2	CUFT	1	(M)SDS	 
2203702	TRIMETHYLSILANE C3H10SI	SHELF 2	C2	993-07-7	3	CUFT	1	(M)SDS	 
2203703	ABAMECTIN	SHELF 2	C2	71751-41-2	5	GRAM	1	(M)SDS	 
2203704	MAXWELL® CSC RNA FFPE KIT	SHELF 2	C2		10	GALLONS	1	(M)SDS	 

The record provides various information such as the location, product information and container quantity.

The container screen is organized so that the top part displays **Where** a chemical is located, The middle portions **What** the chemical is, to **Whom** this container is assigned, **When** this container was entered and accessed and other details about the container. The bottom portion of the form is the **Quantity** and **Size** of the container.



The screenshot shows a detailed container record form with several sections highlighted by red boxes and arrows:

- Where is the chemical stored:** Points to the **Location** section, which includes fields for Loc./Desc. (SHELF 2), Building (STORAGE BUILDING), Facility (CS2), Floor, Room (C2), and Department (STORAGE).
- Product name and other details:** Points to the **PRODUCT** section, which includes Material Name (ACETIC ACID), Manufacturer (FISHER SCIENTIFIC), Supplier (FISHER), CAS# (64-19-7), Phys. State (Liquid), and Pure/Mix/Dilution (Pure).
- Chemical owner, barcode number and critical dates (date chemical received, container open date, expiration date) as well as other detailed data:** Points to the central section containing fields for Post Date (1/17/2017), Container Type (BUCKET), Barcode (2188000), Employee Name (KANADEZA TEREZA), Request Employee ID, Open Date, Request Date, Project, Initial Cost, Cost/Unit, Document, Expiration Date (1/17/2018), Container Status, and Remaining Cost.
- Quantity, size and unit of measure:** Points to the bottom section containing fields for Container Quantity (100), Cont. Unit (GRAM), Container Size (100), and Case ID.

At the bottom of the form, there is a **Container KIT** section with a table for tracking kits. The table has columns for Barcode, Material Name, Qty, Unit, and SDS. The current view shows "No records found."

NAVIGATION AND OPTION BUTTONS

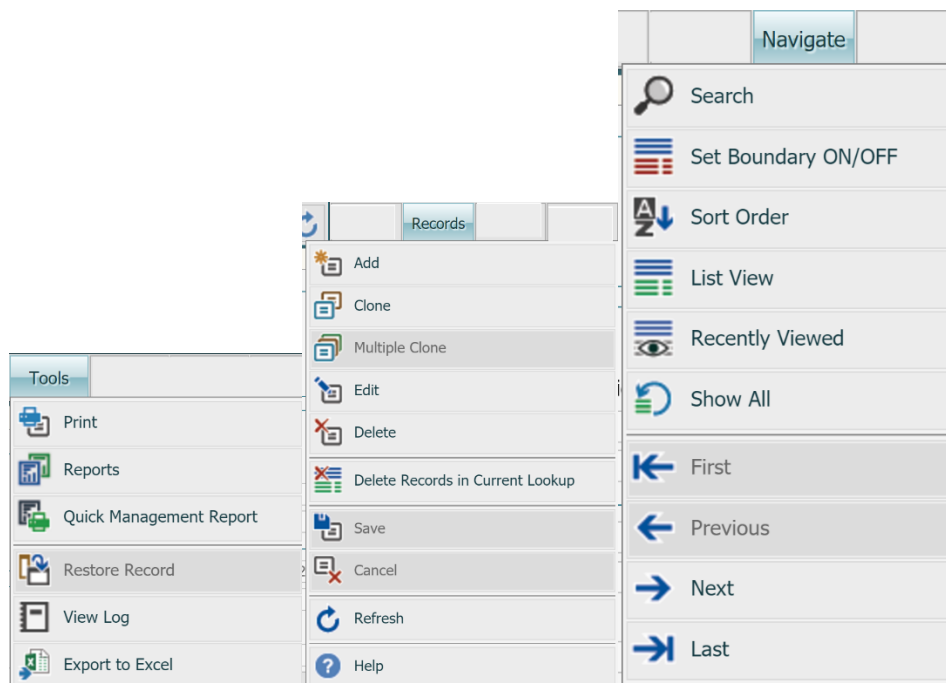
Use the navigation and options buttons at the top of each page to view and manage specific records.



Use the options buttons to manage records, display and print labels, print reports, export records to Excel, move and dispose chemical containers, view container transaction logs, view container history, restore records and review chemical incompatible locations.

The first set of buttons allow you to perform easy functions like moving forward and back to other records, searching or sorting data as well as adding, editing and saving a record.

The second set of buttons to the right of the form allow you to do many useful tools and actions like marking chemical containers as surplus, moving chemicals to different labs or locations, consuming or splitting a chemical container and making waste pickup requests, among many other functions.



An additional source to access the navigation and option buttons, is through Help



Help

Tools Menu

- Print
- Reports
- Quick Management Report
- Restore Record
- View Log
- Export to Excel

Records Menu

- Add
- Clone
- Multiple Clone
- Edit
- Delete
- Delete Records in Boundary
- Save
- Cancel
- Refresh
- Help

Navigate Menu

- Search
- Set boundary ON/OFF
- Sort Order
- List View
- Recently Accessed
- Show All
- First
- Previous
- Next
- Last

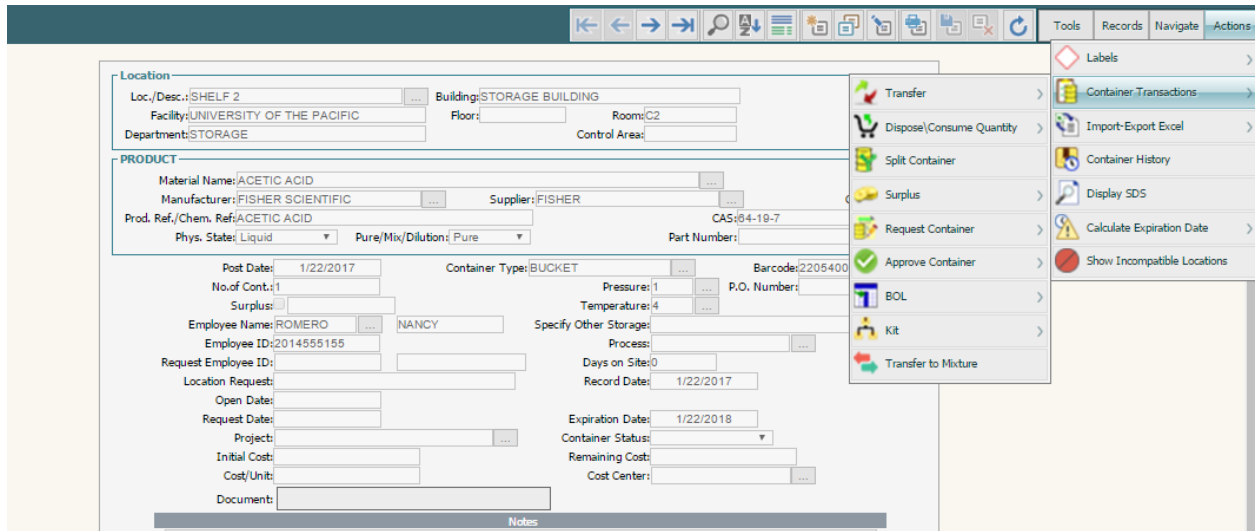
Click on any Menu and you will be given information about it.

- **Search:** Click search to perform a find. This option will open the find screen of your current form

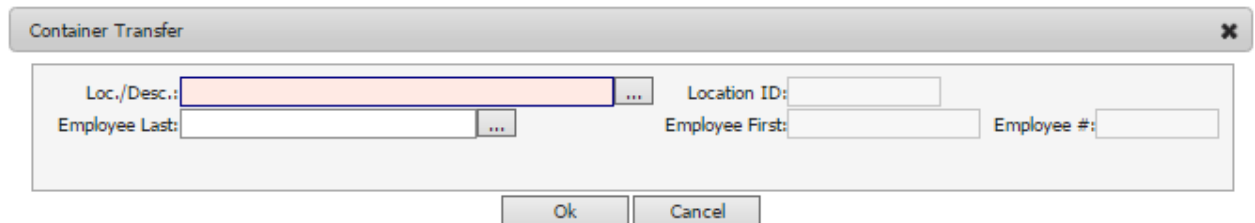
On the top right of the screen there is an “Actions” menu with several options you can perform on the existing record or multiple, such as viewing and printing labels, manage the status, movement, use and disposal of chemical containers

The screenshot displays a software interface for chemical management. At the top, there is a navigation bar with icons and tabs for 'Tools', 'Records', 'Navigate', and 'Actions'. The 'Actions' tab is highlighted with a red arrow and a question mark icon. Below the navigation bar, the main form is divided into sections: 'Location', 'PRODUCT', and 'Notes'. The 'Location' section includes fields for 'Loc./Desc.', 'Building', 'Facility', 'Floor', 'Room', and 'Department'. The 'PRODUCT' section contains fields for 'Material Name', 'Manufacturer', 'Supplier', 'Confidential', 'Prod. Ref./Chem. Ref.', 'CAS', 'Phys. State', 'Pure/Mix/Dilution', 'Part Number', 'Post Date', 'Container Type', 'Barcode', 'No. of Cont.', 'Surplus', 'Pressure', 'Temperature', 'P.O. Number', 'Employee Name', 'Employee ID', 'Request Employee ID', 'Location Request', 'Open Date', 'Request Date', 'Project', 'Initial Cost', 'Cost/Unit', and 'Document'. The 'Notes' section is at the bottom of the form.

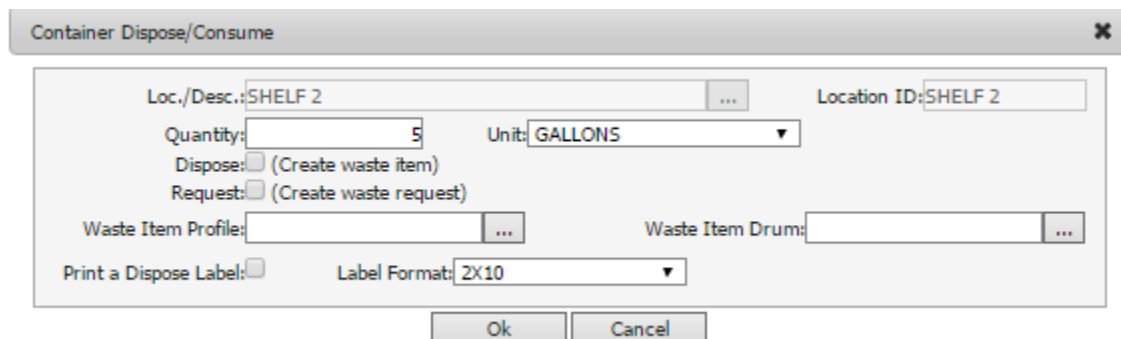
Here are some of the most common Actions you can perform on one or multiple containers:



Click "Transfer" under Actions if you want to transfer this record or multiple records to another location or user



Click "Dispose/Consume" under Actions menu to Dispose a container or Consume all or part of a container



If you want to *Dispose* the quantity of the container you simply check the “Dispose” box located under Quantity.

The screenshot shows a dialog box titled "Container Dispose/Consume". It contains the following fields and controls:

- Loc./Desc.: SHELF 2 (with a browse button "...")
- Location ID: SHELF 2
- Quantity: 5
- Unit: GALLONS (dropdown menu)
- Dispose: (Create waste item) - This checkbox is highlighted with a red box.
- Request: (Create waste request)
- Waste Item Profile: (with a browse button "...")
- Waste Item Drum: (with a browse button "...")
- Print a Dispose Label:
- Label Format: 2X10 (dropdown menu)
- Buttons: Ok, Cancel

If you want to *Consume* the amount stated in quantity you simply erase the quantity amount and you click OK.



Step 4: By clicking “My SDS Binder” you will have a list of all SDS’s that are specifically permitted to the current user’s location.

10 records					
PRODUCT NAME	MANUFACTURER	SDS#	REVISION DATE	ENTRY DATE	(M)SDS
1 BUTENE C4H8	PRAXAIR	2150455	2/20/2015	2/20/2015	(M)SDS >
ABAMECTIN	ALFA AESAR	2148832	3/5/2013	3/5/2013	(M)SDS >
ACETIC ACID	FISHER SCIENTIFIC	2149994	2/24/2016	2/24/2016	(M)SDS >
ACETONE	AVANTOR	810229	6/17/2014	4/17/2014	(M)SDS >
AMMONIUM HYDROXIDE	FISHER SCIENTIFIC	2149823	12/30/2015	12/30/2015	(M)SDS >
BENZENE	SIGMA ALDRICH	820034	3/27/2015	11/21/2013	(M)SDS >
CHLORINE GAS	PRAXAIR	2150440	4/9/2015	12/23/2016	(M)SDS >
TRIMETHYLSILANE C3H10SI	PRAXAIR	2150436	3/18/2016	1/17/2017	(M)SDS >
VALINOMYCIN	ACROS ORGANICS	2148133	2/10/2015	2/10/2015	(M)SDS >
ZINC SULFATE HEPTAHYDRATE FOR ANALYSIS EMSURE® ACS,ISO,REAG. PH	EMD MILLIPORE	2149606	2/3/2015	2/3/2015	(M)SDS >

The (M)SDS button will open the SDS for the specific product and manufacturer in PDF format.

PRAXAIR 1-Butene
Making our planet more productive Safety Data Sheet P-6214
 according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.
 Date of issue: 01/01/1979 Revision date: 02/20/2015 Supersedes: 12/01/2009

SECTION: 1. Product and company identification

1.1. Product Identifier
 Product form : Substance
 Name : 1-Butene
 CAS No : 106-98-9
 Formula : C4H8
 Other means of identification : 1-BUTYLENE


1.2. Relevant identified uses of the substance or mixture and uses advised against
 Use of the substance/mixture : Industrial use. Use as directed.


1.3. Details of the supplier of the safety data sheet
 Praxair, Inc.
 39 Old Ridgebury Road
 Danbury, CT 06810-5113 - USA
 T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146
www.praxair.com







1.4. Emergency telephone number
 Emergency number : Onsite Emergency: 1-800-645-4633
 CHEMTREC, 24hr/day 7days/week — Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887 (collect calls accepted, Contract 17729)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
 Classification (GHS-US)
 Flam. Gas 1 H220
 Liquefied gas H280

2.2. Label elements
 GHS-US labeling
 Hazard pictograms (GHS-US) : 
 Signal word (GHS-US) : DANGER
 Hazard statements (GHS-US) : H220 - EXTREMELY FLAMMABLE GAS
 H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
 OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.
 CGA-HG04 - MAY FORM EXPLOSIVE MIXTURES WITH AIR
 CGA-HG01 - MAY CAUSE FROSTBITE.
 Precautionary statements (GHS-US) : P202 - Do not handle until all safety precautions have been read and understood
 P210 - Keep away from heat, Open flames, sparks, hot surfaces. - No smoking
 P271+P403 - Use and store only outdoors or in a well-ventilated place.
 P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely
 P381 - Eliminate all ignition sources if safe to do so
 CGA-PG05 - Use a back flow preventive device in the piping.
 CGA-PG12 - Do not open valve until connected to equipment prepared for use.
 CGA-PG06 - Close valve after each use and when empty.
 CGA-PG11 - Never put cylinders into unventilated areas of passenger vehicles.
 CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F).

The “arrow”  button will open the record of the selected product where you can view several details for the chemical.

PRODUCT NAME	MANUFACTURER	SDS#	REVISION DATE	ENTRY DATE	INVENTORY	(M)SDS	
1 BUTENE C4H8	PRAXAIR	2150455	2/20/2015	2/20/2015	<input checked="" type="checkbox"/>	(M)SDS	
ABAMECTIN	ALFA AESAR	2148832	3/5/2013	3/5/2013	<input checked="" type="checkbox"/>	(M)SDS	
ACETIC ACID	FISHER SCIENTIFIC	2149994	2/24/2016	2/24/2016	<input checked="" type="checkbox"/>	(M)SDS	
ACETONE	AVANTOR	810229	6/17/2014	4/17/2014	<input checked="" type="checkbox"/>	(M)SDS	
AMMONIUM HYDROXIDE	FISHER SCIENTIFIC	2149823	12/30/2015	12/30/2015	<input checked="" type="checkbox"/>	(M)SDS	
BENZENE	SIGMA ALDRICH	820034	3/27/2015	11/21/2013	<input checked="" type="checkbox"/>	(M)SDS	

A lot of information can be reviewed and recorded in the different tabs in SDS Manager page

1. **Product data** - Contains Data regarding the MSDS/SDS such as:

- The chemical supplier/manufacturer
- CAS and (M)SDS Numbers
- Labels
- Persons responsible for the chemical

Prod.Name: 1 BUTENE C4H8
 Manufacturer: PRAXAIR
 SDS #: 2150455

Product Data | COMP/REGs/MISC | SDS Image | Chemical Ref. Data | Environmental

Supplier: PRAXAIR
 Product/Chemical Name: 1 BUTENE C4H8
 CAS #: 106-98-9
 Revision Date: 2/20/2015
 Entry Date: 2/20/2015
 Date Received:
 Source:
 Shipping Name:
 Add'l Ship Desc:
 Spec. Comm.:

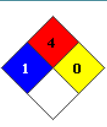


Phys. State: Gas
 Pure/Mix/Dilution:
 Emergency #:
 Storage Plan:

Confidential:
 Restrict Access:
 Kit:
 Product Type:
 Product #:
 Expiration Date:
 Expiration Days:
 Target Organs:
 Entry Routes:
 Immediate Area Action:

NFPA/HMIS
 Health: 1
 Flammable: 4
 Skin/Eye: 1
 Chronic:
 Reactive: 0
 Special:
 Personal Equip.: B-Safety Glasses+Gloves

TIER II Hazard Codes
 Health Acute:
 Flammable: Pressure:
 Health Chronic:
 Reactive:

Responsible Person
 Last Name:
 First Name:
 Title:
 Work Phone:
 24 hr Phone:
 Mobile/Cell #:

2. **COMP/REGs/MISC**- Click to view a variety of additional information including mixture ingredient, regulations, synonyms, projects, approved chemical locations, part numbers, and green chemical substitutes

COMP/REGs/MISC Contains data divided into several different tabs including:

The screenshot displays the COMP/REGs/MISC interface with two main sections:

COMPOSITION

Composition	CAS	Min	Max	Average	Unit	Confidential
ACETONE	67-64-1	1.00	12	6.5	Balance	<input type="checkbox"/>

PART NUMBER

Part Number	Description	Quantity	B.O.L.	In. Desc.	In. Unit	In. Type
10-111-41			Single			

Below these sections is a list of synonyms:

Synonym
1-MERCAPTOPENTANE
1-PENTANETHIOL
1-PENTYL MERCAPTAN
2-PROPANONE
971934
ACETONE
ACETONE OIL (DOT)
AMYL HYDROSULFIDE
AMYL MERCAPTAN
AMYL MERCAPTAN (DOT)

Another source to view the SDS PDF and also view or print the GHS Labels

The screenshot shows the SDS Image interface for BUTENE C4H8. The product name is "1 BUTENE C4H8" and the manufacturer is "PRAXAIR". The SDS # is "2150455".

The interface includes a file selection table:

Language	File
English	EN2150455_1.pdf

Below the table, there are dropdown menus for Language (English), Quantity (1), GHS (GHS), and GHS LABEL (GHS LABEL). A "View Label / Hazard / PPE Data" button is also present.

Additional fields include "HTTP MSDS/SDS Reference:" and "Shipping Info:".

3. Chemical Ref. Data- Click on to add/edit/delete/view chemistry related information about the chemical including:

- Boiling/ Melting Points
- Storage Conditions and Requirements
- International Fire Codes
- Uniform Fire Codes
- Explosion Limits
- Density, Specific Gravity, and Molecular Weight

Product Data	COMP/REGS/MISC	MSDS Image	Chemical Ref. Data	Environmental	
Mol. Weight:	58.08	Specific Vol.:		Vapor Pressure:	180 MM HG @ 20C
Boiling Point:	58.08			Vapor Density:	2.0
Melting Point:	-95.4 C			Uniform Fire Code:	...
TWA:	750 PPM (1800 MG/M3)			International Fire Code:	...
STEL:	1000 PPM (2400 MG/M3)			Upper Explosion Limit:	12.8%
Water Sol.:	MISCIBLE			Lower Explosion Limit:	2.6%
Evap. Rate:	7.7			Auto Ignite Temp.:	465 Unit: C
Conv. Factor:	1 PPM = 2.37 MG/M3; 1 MG/M3 = 422 PPM			Critical Temperature:	235 Unit: C
Storage Req.:	...			Pesticide ID:	IARC: <input type="checkbox"/>
Specific Gravity (LIQ):	...			Storage Temp.:	COOL
Density:	0.79 Pounds/Gallons			Storage Pressure:	ROOM
pH:	N/A			Special Handling Equip.:	...
Flash PT:	-20 C			Special Fire Fighting Media:	...
Classification:	KETONES			EINECS:	...
Curies:				Shock Sensitive:	<input type="checkbox"/> Precious Metal: <input type="checkbox"/>
STCC:	4908105			ICSC Page:	0087 View
OSHA Hazardous:	<input checked="" type="checkbox"/>			CERS Chem.Library ID:	
NIOSH Page:			View	US EPA SRS:	

4.Environmental- Click on to Add/Edit/View/Delete regulatory data for this chemical

- Define if a chemical is Green or not
- Set the Hazard Codes of the material.
- Set the Hazard Labels of the material
- Define the Precautionary and Hazard statements of the material

Prod.Name: 1 BUTENE C4H8 ...
Manufacturer: PRAXAIR ... SDS #: 2150455

Product Data COMP/REGS/MISC SDS Image Chemical Ref. Data Environmental

GHS

H Codes: H220,H280 ... Category: 1,COMPRESSED GAS,
P Codes: P202,P210,P271,P403,P377,P381 ... Signal Word: DANGER
HAZARD CLASS: FLAMMABLE GASES,GASES UNDER PRESSURE,
CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED,EXTREMELY FLAMMABLE GAS,
Hazard Statements:
Other Information: Pictogram: GHS02,GHS04 ...
Transporter Pict.: ...

US

Haz. Class US.: 2.1 ... RCRA: ... DOT/UN#: UN1075
Haz. Label US.: ... RTECS: ... RQ: ...
Formula: ... ERG: ... RQ Trig: ...
Toxic Catg.: ... Green: Marine Poll: ...
UHC: ... Packing Grp: ... Profile: ... Safer Choice:

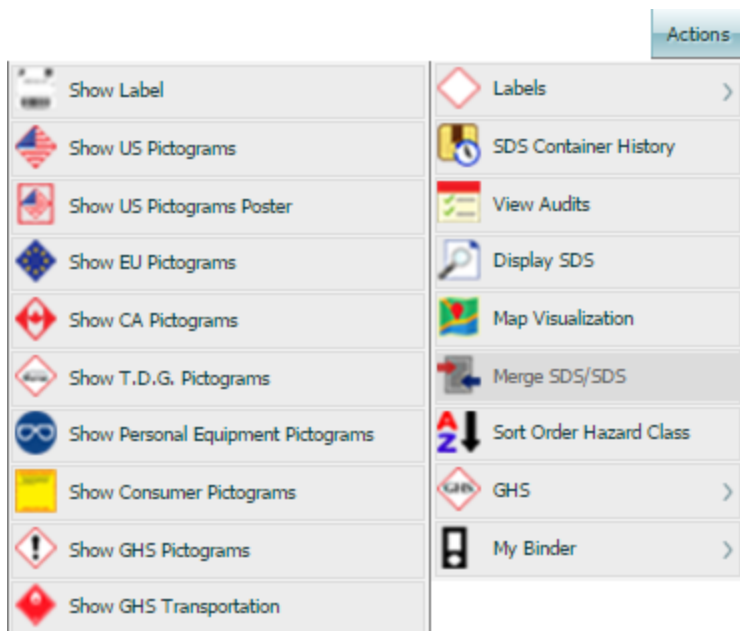
CA

Haz. Class CA.: ...
Haz. Label CA.: ...
T.D.G. Lbls: ...
Consumer Lbls: ...

EU

Haz. Class EU.: ...
Haz. Label EU.: ...
R Phrases: ...
S Phrases: ...

In SDS page under Actions menu, there is a variety of functions you can perform for the selected SDS product




- Print Multilanguage SDS labels
- Personal equipment labels
- New GHS labeling regulations
- GHS labeling on transportation regulations
- Container History report which provides an adequate audit for all actions
- View Audits assigned to this Facility of the SDS record
- Display SDS in PDF format of this record
- Sort your boundary (product selection list) by Hazard class




Step 5: By clicking the “Site SDS” icon you will be able to view all chemicals listed within your site or Facility.

15 records						
PRODUCT NAME	MANUFACTURER	SDS#	REVISION DATE	ENTRY DATE	(M)SDS	
1 BUTENE C4H8	PRAXAIR	2150455	2/20/2015	2/20/2015	(M)SDS	>
ABAMECTIN	ALFA AESAR	2148832	3/5/2013	3/5/2013	(M)SDS	>
ACETIC ACID	FISHER SCIENTIFIC	2149994	2/24/2016	2/24/2016	(M)SDS	>
ACETONE	AVANTOR	810229	6/17/2014	4/17/2014	(M)SDS	>
AMMONIUM HYDROXIDE	FISHER SCIENTIFIC	2149823	12/30/2015	12/30/2015	(M)SDS	>
Ammonium Persulfate	EMD Millipore	2149264	11/4/2014		(M)SDS	>
BENZENE	SIGMA ALDRICH	820034	3/27/2015	11/21/2013	(M)SDS	>
CHLORINE GAS	PRAXAIR	2150440	4/9/2015	12/23/2016	(M)SDS	>
LYSIS BUFFER	PROMEGA CORPORATION	806918	6/27/2016	1/16/2017	(M)SDS	>
MAXWELL® CSC RNA FPPE KIT	PROMEGA CORPORATION	806895	6/27/2016	1/16/2017	(M)SDS	>
NUCLEASE-FREE WATER	PROMEGA CORPORATION	806916	6/27/2016	1/16/2017	(M)SDS	>
TRIMETHYLSILANE C3H10SI	PRAXAIR	2150436	3/18/2016	1/17/2017	(M)SDS	>
VALINOMYCIN	ACROS ORGANICS	2148133	2/10/2015	2/10/2015	(M)SDS	>
XYLENE SUBSTITUTE	SIGMA ALDRICH	806939	5/24/2016	1/19/2017	(M)SDS	>
ZINC SULFATE HEPTAHYDRATE FOR ANALYSIS EMSURE® ACS.ISO.REAG. PH	EMD MILLIPORE	2149606	2/3/2015	2/3/2015	(M)SDS	>

Find, view and print SDS's and labels for all SDS in your site.

The (M)SDS  button will open the SDS for the specific product and manufacturer in PDF format.

The “arrow”  button will open the record of the selected product where you can view several details for the chemical.

Please note that adding and editing SDS information has been disabled for this user.



Step 6: By clicking “Global SDS Library” icon you will be able to search our database and locate a chemical you want.

This is the Search page where you can type the name, of chemical you want to search (for example Acetone)

Search		
NAME:	Begins with ▼	ACETONE
PRODUCT-CAS-SYNONYMS:	Contains ▼	
GREEN ALTERN. FOR:	Begins with ▼	
MANUFACTURER:	Begins with ▼	
SUPPLIER:	Begins with ▼	
PART NUMBER:	Begins with ▼	
SDS #:	Begins with ▼	
REVISION DATE:	Equals ▼	
ENTRY DATE:	Equals ▼	
SYNONYMS:	Begins with ▼	
CAS:	Begins with ▼	
REGULATION:	Begins with ▼	
LOCATION:	Begins with ▼	
FACILITY:	Begins with ▼	
COMP REGUL.:	Begins with ▼	
COMP-CHEM. NAME:	Begins with ▼	
DEPARTMENT:	Begins with ▼	
COMP-CAS:	Begins with ▼	
HAZCLASS:	Begins with ▼	
H Phrases:	Begins with ▼	
P Phrases:	Begins with ▼	

When you hit “search” it will bring up the following results:

PRODUCT NAME	MANUFACTURER	SDS#	REVISION DATE	ENTRY DATE	(M)SDS	
Acetone	Acros Organics		3/12/2014		(M)SDS	>
Acetone	Fisher Scientific		3/12/2014		(M)SDS	>
Acetone	Alfa Aesar		4/28/2014		(M)SDS	>
Acetone	Science Lab		5/21/2013		(M)SDS	>
Acetone	SIGMA ALDRICH		6/4/2015		(M)SDS	>
Acetone	ThermoFisher				(M)SDS	>
ACETONE	POCH		9/17/2008		(M)SDS	>
ACETONE	Avantor		6/8/2016		(M)SDS	>
Acetone- 2,4-DNPH solution	SIGMA ALDRICH		1/10/2014		(M)SDS	>
Acetone azine	SIGMA ALDRICH		7/1/2014		(M)SDS	>
Acetone cyanohydrin	SIGMA ALDRICH		11/24/2015		(M)SDS	>
Acetone cyanohydrin, stabilized with <0.3% sulfuric acid. 98+%	Acros Organics		8/5/2015		(M)SDS	>
Acetone for analysis EMPARTA® ACS	EMD Millipore		5/19/2014		(M)SDS	>
Acetone for analysis EMSURE® ACS.ISO.Reag. Ph Eur	EMD Millipore		5/19/2014		(M)SDS	>
Acetone GR ACS	EMD Millipore		5/19/2014		(M)SDS	>
Acetone O-(benzyloxy carbonyl)oxime	SIGMA ALDRICH		7/2/2014		(M)SDS	>
Acetone O-pentafluorophenylmethyl-oxime	SIGMA ALDRICH		6/28/2014		(M)SDS	>
Acetone oxime	Acros Organics		4/13/2015		(M)SDS	>
Acetone oxime	SIGMA ALDRICH		7/1/2014		(M)SDS	>
Acetone semicarbazone	Alfa Aesar		10/11/2005		(M)SDS	>
Acetone sodium bisulfite, 97%(titr.)	Acros Organics				(M)SDS	>
Acetone solution	SIGMA ALDRICH		10/1/2015		(M)SDS	>
Acetone Standard for UV certification to USP857, Part Number G6860-80002	Agilent		11/26/2015		(M)SDS	>
ACETONE, DISTILLED IN GLASS	GFS Chemicals				(M)SDS	>
ACETONE, VERITAS® ULTIMATE SOLVENT	GFS Chemicals		2/19/2014		(M)SDS	>
Acetone, Crude	Dow		3/16/2016		(M)SDS	>
Acetone, NF Grade (CDTA Regulated)	Dow		3/15/2016		(M)SDS	>
Acetone-1,3-13C2	SIGMA ALDRICH		6/2/2016		(M)SDS	>
Acetone-13C3	SIGMA ALDRICH		6/2/2016		(M)SDS	>
Acetone-18O	SIGMA ALDRICH		6/2/2016		(M)SDS	>

By selecting the record, you want, you click on the “arrow”  icon to open the record.

Acetone	Fisher Scientific		3/12/2014		(M)SDS	
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NOTE: By clicking and opening a record from Global SDS, you will notice the navigation menu is limited and you don’t have many options.

Prod.Name: ACETONE
 Manufacturer: FISHER SCIENTIFIC
 SDS #:

Product Data | SDS Image | Chemical Ref. Data | Environmental

Supplier: _____ Confidential: Restrict Access: Kit:

Product/Chemical Name: ACETONE
 CAS #: 67-64-1
 Revision Date: 3/12/2014
 Entry Date: _____
 Date Received: _____
 Source: _____
 Shipping Name: _____
 Add'l Ship Desc: _____
 Spec. Comm.: _____

Phys. State: _____
 Pure/Mix/Dilution: _____
 Emergency #: _____
 Storage Plan: _____
 Product Type: _____
 Product #: _____
 Expiration Date: _____ Expiration Days: _____
 Target Organs: _____
 Entry Routes: _____
 Immediate Area Action: _____

NFPA/HMIS

Health: 1 Flammable: 3 Skin/Eye: _____
 Chronic: Reactive: 0
 Special: _____
 Personal Equip.: B-Safety Glasses+Gloves

TIER II Hazard Codes

Health Acute: Flammable: Pressure: Health Chronic: Reactive:

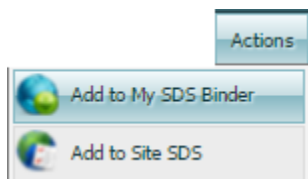
Responsible Person

Last Name: _____ First Name: _____ Title: _____
 Work Phone: _____ 24 hr Phone: _____ Mobile/Cell #: _____

Records | Navigate | Actions

Add to My SDS Binder
 Add to Site SDS

Under “Actions” menu you have 2 options:



- Add to My SDS Binder: Click this option to download and add this selected SDS product to your SDS binder.
- Add to Site SDS: Click this option to download and add this selected SDS product to your Facility’s binder.

Step 7: By clicking “Disposal Request” you open the Waste Pickup Request form.

Request Employee

Last Name: SMITH First Name: JOHN Employee #: 2014555138
Email address: TONYD@CHEMICALSAFETY.COM Phone:

Item ID: 14888
Barcode: Chem Name: Profile: Location: STORAGE LOC1
Drum: Accum. Area: Request Date: 1/19/2017
Pickup Date: CAS #: Facility: UNIVERSITY OF THE PACIFIC
Building: STORAGE BUILDING 1

Container

of Cont: 1 Size: Units: P POUNDS Type:

Contents

Quantity: Units: P POUNDS Lbs/Gal: 8.34 Lbs: pH:

Radioactive

Radioactive: Mixed: RUA: Isotope: Activity: Unit:

Account: Cost: EPA Codes: Classification: Project: Status: PENDING Phys. State: Print Label: AVERY LABELS No Print

Notes

COMPOST...	CAS	PERCENT	RANGE	UNITS
No records found.				

Help

The highlighted red cells are mandatory to complete in order to save the record and complete the request:

LAST NAME—This field is filled in automatically for you.

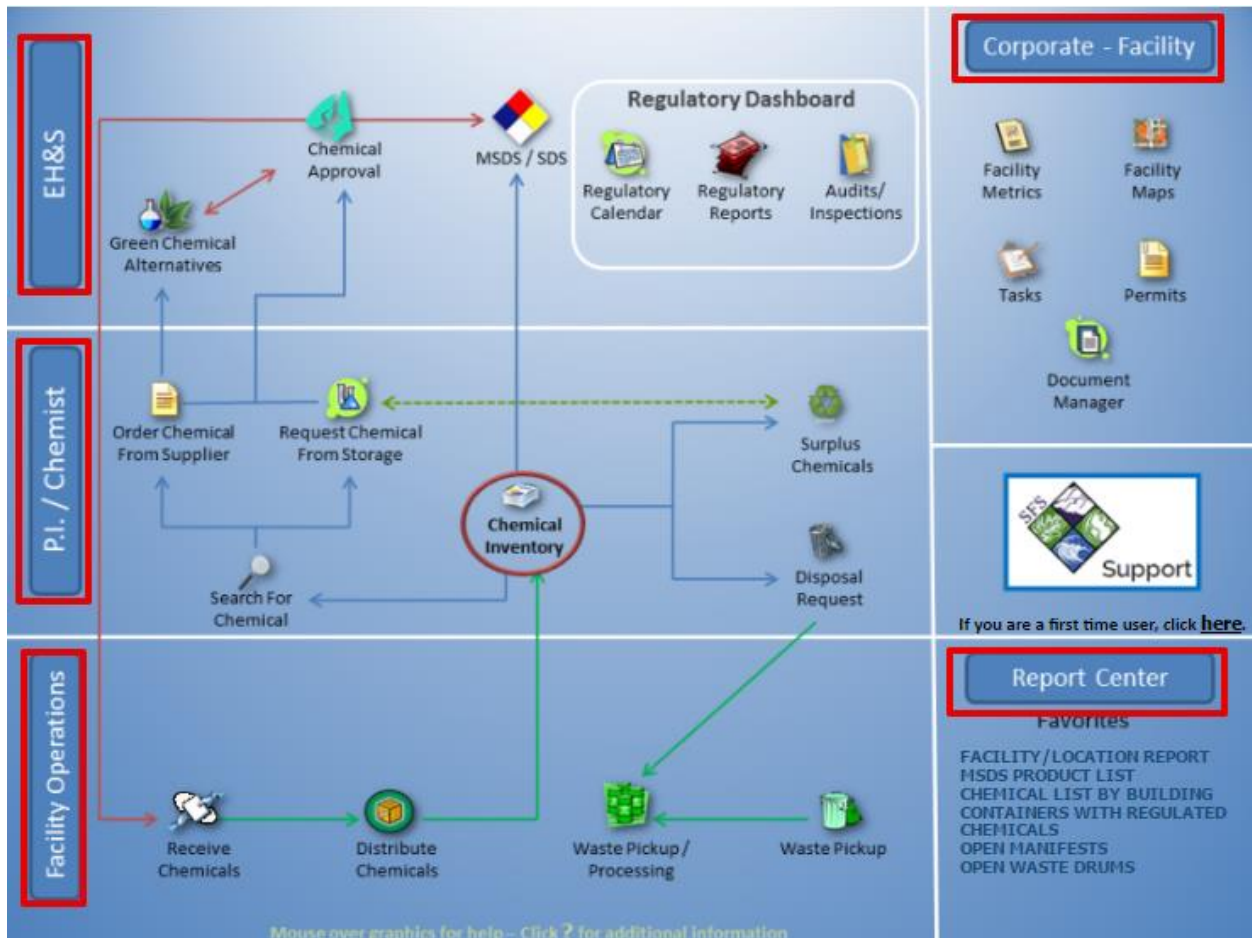
ITEM ID—A sequential number assigned to pick up requests. You may enter a different number if you need to.

CHEM NAME—Type the first few characters of the Chemical Name of the container you wish to have picked up for disposal. Select from the list of Chemical Names that is displayed by clicking on the name

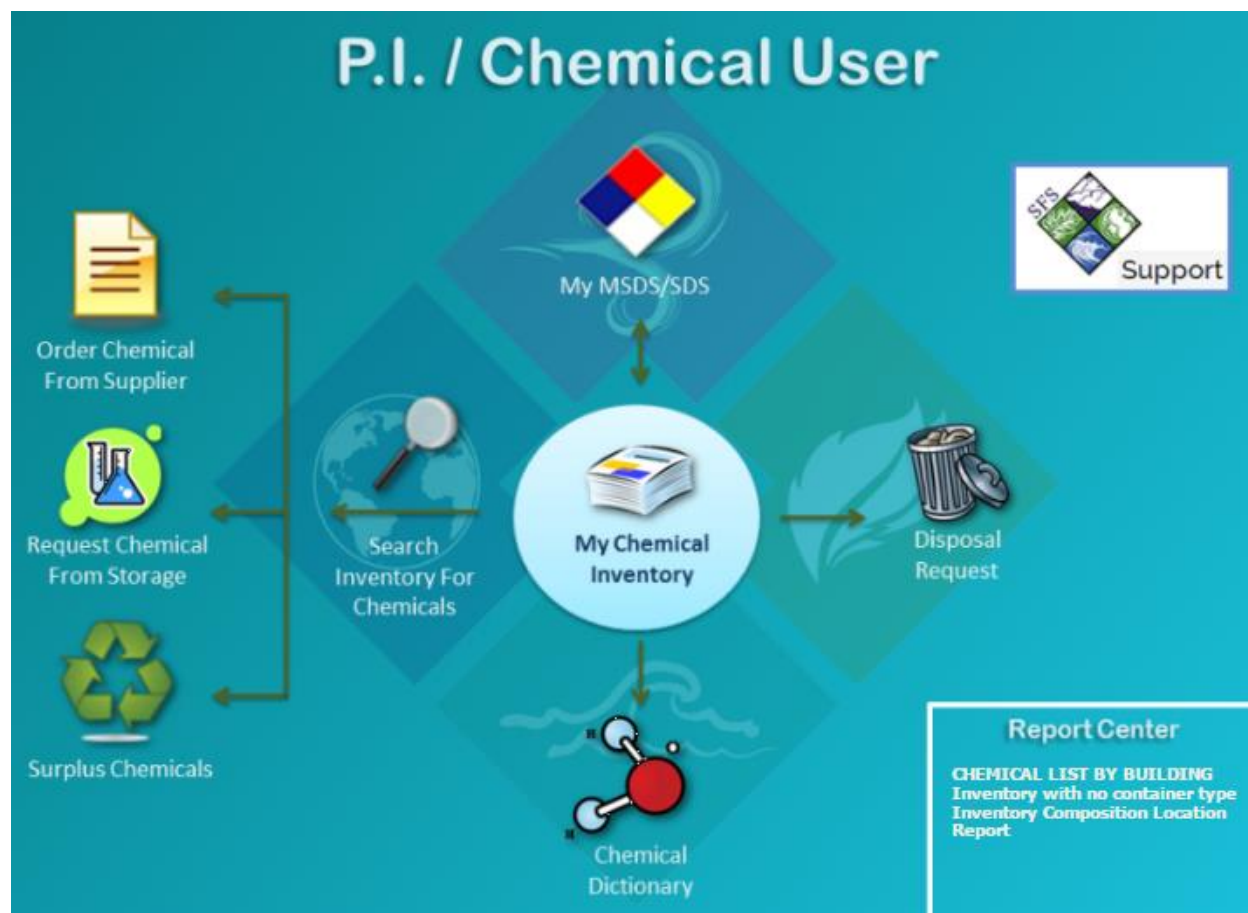
QUANTITY—enter the Quantity of the Container. Usually, this will be the same as the Size of the Container.

TIP: If there is a barcode label on the container, you can enter that number into the Barcode field, and the Chemical Name and other information will be filled in automatically for you. OR, you can click the button with 3 dots (...) next to the Barcode field, scroll through the list to find the container, and click the > button to the right of the record to select it.

Step 8: By clicking on “Default Dashboard” you open the Default Dashboard which has a number of different actions and options. This Dashboard is separated in 5 sections: P.I./Chemist Quick Start Menu, EH&S Quick Start Menu, Facility Operations Quick Start Menu, Corporate-Facility, Corporate-Facility and Report Center




Step 9: By clicking “*Chemist Dashboard*” it includes typical functions that a person handling chemicals would need to access the EMS software for, namely to review/update their own inventory, search for and/or order a chemical and request that a chemical be picked up for disposal



Step 10: By clicking “Waste Dashboard” you will view a list of functions intended for waste handlers to pick-up, store consolidate and dispose waste. This Dashboard is separated in 5 sections: Manifesting/Disposal, Waste Inventory Tracking, Chemists/Waste Handlers, Facility Waste Operations, Report Center.



HELP

For any additional help you can click on the  which is located in every page and provides information for the existing page you are on.

Here is an example from Container page:



Help

Container

Containers are the backbone of all processes related to inventory management. Container module allows you to manage chemicals from cradle-to-grave and closely track all transactions that involve containers with specific dates and responsible employee information. Cost information can also be displayed.

What do you want to do?

- Labels
- Container Transactions
- Transfer
 - Dispose/Consume quantity
 - Split Container
 - Surplus
 - Request Container
 - Approve Container
 - BOL
 - Kit
 - Transfer to Mixture
- Import/Export Excel
- Container History
- Display MSDS/SDS
- Copy Container
- Calculate Expiration Date
- Show Incompatible Locations

Related Topics

- Inventory
- Inventory Rules
- Compatibility Rules
- Purchase Items
- Container Distribution
- Chemical Inventory Tracking - Training Videos

Toolbar

- First
- Previous
- Next



Also by clicking this icon on the Home Screen Dashboard it will directly take you to our support page on our website

Home / Technical Support

Technical Support

What you are looking for?

- Getting Started**
Helpful tutorials for new users
- Knowledge Base**
Frequently asked questions
- User Guides**
EMS User Documentation
- EMS Video Library**
Learn about EMS features

For any questions please email us at support@chemicalsafety.com or visit our web page at www.chemicalsafety.com/support/