

**University of Alberta
Environmental Health and Safety Tracking Software**

CHEMATIX™ Waste Management Module



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Waste Management

The Waste Management module enables laboratory and regulatory personnel to manage all aspects of chemical disposal. All waste and its corresponding status can be tracked in detail at any point in the system. This module is a critical component of environmental health and safety, assisting in the assurance that each institution is in regulatory compliance with all local, regional, state and federal governing authorities.

Lab Personnel Waste Management

Waste management duties for users such as lab personnel, lab supervisors, principal investigators etc. include the monitoring of local hazards, waste card creation and waste pickup worksheet submission. These functionalities will be described below.

Hazards in my area

Click the **Waste** button at the top of the CHEMATIX™ screen:



Scroll down to the [Generate Hazards in My Area Report](#) link, and click on it.

Hazards in My Area

- [PEC](#)
- [Peroxide Formers](#)
- [Fetal Agents](#)
- [Teratogen](#)
- [Mutagen](#)
- [Controlled substance](#)
- [Bioagent](#)

This list of chemical hazards is a configurable option defined by your institution and can be added to, changed, or modified by a CHEMATIX™ System Administrator. If you have any questions about Hazards in Your Area, contact your Environmental Health and Safety personnel.

For example, a definition for a teratogen is given as:

Teratogens are chemicals that may cause non-inheritable genetic mutations or malformations in the developing fetus (= birth defects). Teratogens may halt the pregnancy outright.

If you wish to view all of the teratogens in your area, click the [Teratogen](#) link.

A list of all teratogens in your lab locations is generated on page [WM478], for example:

Hazards in My Area: Teratogen

While the information and recommendations contained in the University of Georgia's website have been compiled from sources believed to be reliable, the University of Georgia makes no guarantee as to, and assumes no responsibility for, the correctness, sufficiency, or completeness of such information or recommendations. Other or additional safety measures may be required.

Location	Barcode	CAS #	Container Description	Container Size	Content Size	Expiration Date
5144/Hanna Biocenter/360/Waste Treatment Research	GITC0000AD	1703-59-7	N,N-Dimethylsulfanilamide; N1,N1-Dimethylsulfanilamide	1.00 L	1.00 L	6/14/07
5144/Hanna Biocenter/360/Waste Treatment Research	GITC0000BY	7440-81-2	Beryllium powder	25.00 g	25.00 g	1/27/09
805/Siemens Engineering Commons/127/Corrosion Research	GITC0000AC	1703-59-7	N,N-Dimethylsulfanilamide; N1,N1-Dimethylsulfanilamide	2.00 L	2.00 L	3/7/08

Waste Card Creation

When creating chemical waste it is important to keep track of what chemicals are being wasted, either individually or by adding to a mixture of chemical waste. This is done by creating a waste card that contains information about individual waste containers.

By Quantity

Click the **Waste** button at the top of the CHEMATIX™ screen:



You will now see the opening page for

Waste Management

[WM402].

Scroll down to:

Manage Laboratory Waste

[Create Waste Card](#)

[Edit Waste Card](#)

[Waste Card Hot List](#)

[Create Pickup Worksheet](#)

[1 Worksheets Submitted for Pickup](#)

Click on the link [Create Waste Card](#).

Click [Chemical Mixture by Quantity](#) .

Other types of waste cards can also be created, either for waste chemical mixtures by percentage, pure chemicals in individual containers or for more generic products such as recyclable materials, paint, oil, aerosols etc. The availability of these options can be added to, changed, or modified by a CHEMATIX™ System Administrator. If you have any questions about the types of creatable waste cards, contact your Environmental Health and Safety personnel.

Instructor explains different types of waste cards

Create Waste Card

[Chemical Mixture by Percentage](#)

[Chemical Mixture by Quantity](#)

[Pure Chemicals in Individual Containers](#)

[Recyclable Materials](#)

[Paint and Paint Related Materials](#)

[Oil and Antifreeze](#)

[Aerosols](#)

[Gas Cylinders](#)

[Photo Chemicals](#)

Chemical Mixture by Quantity Waste Card

General Information

Created By: Nick Gardner **Phone Number:** 555-666-7777
Department Name: Biology **Laboratory:** Select Location
Accumulation Start Date: 9/8/05 **Lab Barcode:** _____
Container Size: 0.0 L **Container Type:** Glass
Physical State: Liquid **PH Level:** Select

Chemical Information

To add a chemical:

- Scan a container, enter the constituent's quantity, select "Calculate". Once complete click "Generate Waste Card"
- Search for a chemical by selecting the "Select A Chemical" button, enter the constituent's quantity, select calculate, Once complete click "Generate Waste Card"
- Enter the chemical's name and CAS#, enter the constituent's quantity, select "calculate". Once complete, click "Generate Waste Card"

Chemical Name	CAS Number	Barcode	Quantity	
<input type="checkbox"/>			0.00	Select <input type="button" value="Select Chemical"/>
<input type="checkbox"/>			0.00	Select <input type="button" value="Select Chemical"/>
<input type="checkbox"/>			0.00	Select <input type="button" value="Select Chemical"/>
<input type="checkbox"/>			0.00	Select <input type="button" value="Select Chemical"/>
<input type="checkbox"/>			0.00	Select <input type="button" value="Select Chemical"/>

Total Volume: 0.00 L
 Total Mass: 0.00 kg

Select the **Accumulation Start Date:**, **Laboratory:**, **Container Size/Unit:**, **Container Type:**, **Physical State:**, and the **PH Level:**

There are two options for selecting chemicals

Option 1: Enter the barcode of the chemical container.
 For each chemical, scan or enter the container's barcode.

Enter the quantity/units of this chemical in the mixture.

Option 2: Search for and select a chemical by clicking

After clicking , you will now be transferred to page [WM453]:

Search for a Chemical

- ◆ Enter all or part of a chemical name and select "Search".
- ◆ Add a chemical to the waste card by selecting a chemical name from the list.
- ◆ If needed, add a new chemical to the CAD by selecting "Add New Chemical"

Chemical Name: begins with contains exact

CAS#: begins with contains

Enter the Chemical Name or the CAS# into the appropriate fields.

Click to search for your Chemical Name or CAS# in CAD.

Search for a Chemical

- ◆ Enter all or part of a chemical name and select "Search".
- ◆ Add a chemical to the waste card by selecting a chemical name from the list.
- ◆ If needed, add a new chemical to the CAD by selecting "Add New Chemical"

Chemical Name: begins with contains exact

CAS#: begins with contains

Search Results: Found 3 items.

CAS Number	Chemical Name
7647-01-0	Hydrochloric acid
68987-74-6	Hydrochloric acid; reaction products with aniline, 2,3-dihydro-1,4-dihydroxy-9,10-anthracenedione and 1,4-dihydroxy-9,10-anthracenedione
68132-38-7	Hydrochloric acid salt of polymerized triethanolamine partial tall oil acid ester (and-or salt); Polymerized triethanolamine, tall oil acid ester and/or salt, hydrochloric acid salt

Click the from the generated list (for example, Hydrochloric acid) to

Chemical Mixture by Quantity Waste Card

General Information

Created By: Stevens, Tyler Phone Number: 555-392-3885
 Department Name: Biology Laboratory:
 Accumulation Start Date: 8/1/06 Container Type:
 Container Size: 0.0 pH Level:
 Physical State:

Chemical Information

To add a chemical:

- Scan a container, enter the constituent's quantity, select "Calculate". Once complete click "Generate Waste Card"
- Search for a chemical by selecting the "Select A Chemical" button, enter the constituent's quantity, select "Calculate", Once complete click "Generate Waste Card"
- Enter the chemical's name and CAS#, enter the constituent's quantity, select "Calculate". Once complete, click "Generate Waste Card"

Chemical Name	CAS Number	Quantity	
<input type="checkbox"/> Hydrochloric acid	7647-01-0	0.00	<input type="text" value="Select"/> <input type="button" value="Change"/>
<input type="checkbox"/>		0.00	<input type="text" value="Select"/> <input type="button" value="Select Chemical"/>
<input type="checkbox"/>		0.00	<input type="text" value="Select"/> <input type="button" value="Select Chemical"/>
<input type="checkbox"/>		0.00	<input type="text" value="Select"/> <input type="button" value="Select Chemical"/>
<input type="checkbox"/>		0.00	<input type="text" value="Select"/> <input type="button" value="Select Chemical"/>

Total Volume: 0.00 L
 Total Mass: 0.00 kg

To generate waste cards, pop-ups must be enabled.

Enter the quantity/units of this chemical in the mixture.

After you have added all necessary chemicals to your waste card:

Click to view and print your Waste Card in PDF format.

By Percentage

Click the button at the top of the CHEMATIX™ screen:



Waste Management

You will now see the opening page for .

Scroll down to

<p>Manage Laboratory Waste</p> <p>Create Waste Card</p> <p>Edit Waste Card</p> <p>Waste Card Hot List</p> <p>Create Pickup Worksheet</p> <p>1 Worksheets Submitted for Pickup</p>
--

Click on the link [Create Waste Card](#)

Click [Chemical Mixture by Percentage](#)

Other types of waste cards can also be created, either for waste chemical mixtures by quantity, pure chemicals in individual containers or for more generic products such as recyclable materials, paint, oil, aerosols etc. The availability of these options can be added to, changed, or modified by a CHEMATIX™ System Administrator. If you have any questions about the types of creatable waste cards, contact your Environmental Health and Safety personnel.

<p>Create Waste Card</p> <p>Chemical Mixture by Percentage</p> <p>Chemical Mixture by Quantity</p> <p>Pure Chemicals in Individual Containers</p> <p>Recyclable Materials</p> <p>Paint and Paint Related Materials</p> <p>Oil and Antifreeze</p> <p>Aerosols</p> <p>Gas Cylinders</p> <p>Photo Chemicals</p>

Create Waste Card

General Information

Created By: Shook, AI Phone Number: 877-700-2600
 Department Name: Chemical Engineering Laboratory: Select Location
 Accumulation Start Date: Container Type: Glass
 Container Size/Unit: 0.0 / Select pH Level: Select
 Physical State: Liquid

Chemical Information

To add a chemical:

- Scan the container barcode.
- Enter the constituent % (the total MUST add up to 100% EXACTLY), select "Calculate".
- When complete, select "Generate Waste Card"

Chemical Name	CAS Number	Barcode	Percent (%)
			0.00 <input type="button" value="Select Chemical"/>
			0.00 <input type="button" value="Select Chemical"/>
			0.00 <input type="button" value="Select Chemical"/>
			0.00 <input type="button" value="Select Chemical"/>
			0.00 <input type="button" value="Select Chemical"/>
Total Percent: 0.00			<input type="button" value="Calculate"/>

To generate waste cards, pop-ups must be enabled.

Hotlist Waste Card Name:

Select the **Accumulation Start Date:**, **Laboratory:**, **Container Size/Unit:**, **Container Type:**, **Physical State:**, and the **PH Level:**

There are two options for selecting chemicals

Option 1: Enter the barcode of the chemical container.
 For each chemical, scan or enter the container's barcode.

Enter the quantity/units of this chemical in the mixture.

Option 2: Search for and select a chemical by clicking

After clicking , you will now be transferred to page [WM453]:

Search for a Chemical

- ◆ Enter all or part of a chemical name and select "Search".
- ◆ Add a chemical to the waste card by selecting a chemical name from the list.
- ◆ If needed, add a new chemical to the CAD by selecting "Add New Chemical"

Chemical Name: begins with contains exact

CAS#: begins with contains

Enter the Chemical Name or the CAS# into the appropriate fields.

Click to search for your Chemical Name or CAS# in CAD.

Search for a Chemical

- ◆ Enter all or part of a chemical name and select "Search".
- ◆ Add a chemical to the waste card by selecting a chemical name from the list.
- ◆ If needed, add a new chemical to the CAD by selecting "Add New Chemical"

Chemical Name: begins with contains exact

CAS#: begins with contains

Search Results: Found 3 items.

CAS Number	Chemical Name
7647-01-0	Hydrochloric acid
68987-74-6	Hydrochloric acid, reaction products with aniline, 2,3-dihydro-1,4-dihydroxy-9,10-anthracenedione and 1,4-dihydroxy-9,10-anthracenedione
68132-38-7	Hydrochloric acid salt of polymerized triethanolamine partial tall oil acid ester (and/or salt); Polymerized triethanolamine, tall oil acid ester and/or salt, hydrochloric acid salt

Click the from the generated list (for example, Hydrochloric acid) to

Create Waste Card

General Information

Created By: Shock, AI Phone Number: 877-700-2600
 Department Name: Chemical Engineering Laboratory:
 Accumulation Start Date: Container Type:
 Container Size/Unit: 0.0 / pH Level:
 Physical State:

Chemical Information

To add a chemical:

- Scan the container barcode.
- Enter the constituent % (the total **MUST** add up to 100% **EXACTLY**), select "Calculate".
- When complete, select "Generate Waste Card"

Chemical Name	CAS Number	Barcode	Percent (%)
<input type="checkbox"/> Hydrochloric acid	7647-01-0	<input type="text" value=""/>	<input type="text" value="0.00"/> <input type="button" value="Change"/>
<input type="checkbox"/>		<input type="text" value=""/>	<input type="text" value="0.00"/> <input type="button" value="Select Chemical"/>
<input type="checkbox"/>		<input type="text" value=""/>	<input type="text" value="0.00"/> <input type="button" value="Select Chemical"/>
<input type="checkbox"/>		<input type="text" value=""/>	<input type="text" value="0.00"/> <input type="button" value="Select Chemical"/>
<input type="checkbox"/>		<input type="text" value=""/>	<input type="text" value="0.00"/> <input type="button" value="Select Chemical"/>
Total Percent: 0.00			<input type="button" value="Calculate"/>

To generate waste cards, pop-ups must be enabled.

Holist Waste Card Name:

Enter the percentage of this chemical in the mixture. The total percentage of chemicals must add up to 100.

After you have added all necessary chemicals to your waste card:

Click to view and print your Waste Card in PDF format.

Using Reusable Waste Containers

In order to use a reusable waste container, first select the Laboratory that it is located in from the Create Waste Card page.

The Reusable container type will appear in the drop down menu if there is a reusable container in that location.

Create Waste Card

General Information

Created By: Karolat, Jack Phone Number: 877-700-2600
 Department Name: Chemical Engineering Laboratory: 917/339/Thermodynamics Lab
 Accumulation Start Date: [] Container Type: Unspecified
 Container Size/Unit: 4.0 / L pH Level: Unspecified
 Physical State: Liquid [Glass
Polyethylene
Metal
Fiber
Reusable]

Chemical Information

To add a chemical:

- Scan the container barcode.
- Enter the constituent % (the total MUST add up to 100% EXACTLY), select "Calculate".
- When complete, select "Generate Waste Card"

Chemical Name	CAS Number	Barcode	Percent (%)
<input type="checkbox"/>			0.00 <input type="button" value="Select Chemical"/>
<input type="checkbox"/>			0.00 <input type="button" value="Select Chemical"/>
<input type="checkbox"/>			0.00 <input type="button" value="Select Chemical"/>
<input type="checkbox"/>			0.00 <input type="button" value="Select Chemical"/>
<input type="checkbox"/>			0.00 <input type="button" value="Select Chemical"/>
Total Percent: 0.00			<input type="button" value="Calculate"/>

To generate waste cards, pop-ups must be enabled.

Hotlist Waste Card Name:

Upon selecting the reusable container type, an additional drop down menu will appear, containing all reusable waste containers currently at that location.

Create Waste Card

General Information

Created By: Karolat, Jack Phone Number: 877-700-2600
 Department Name: Chemical Engineering Laboratory: 917/339/Thermodynamics Lab
 Accumulation Start Date: Container Type: Reusable
 Container Size/Unit: 4.0 / pH Level: Select
 Physical State: Liquid Reusable Containers: GIT000000Q L0008S 4.0 L

Chemical Information

To add a chemical:

- Scan the container barcode.
- Enter the constituent % (the total **MUST** add up to 100% **EXACTLY**), select "Calculate".
- When complete, select "Generate Waste Card"

#	Chemical Name	CAS Number	Barcode	Percent (%)	
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	0.00	Select Chemical
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	0.00	Select Chemical
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	0.00	Select Chemical
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	0.00	Select Chemical
5	<input type="text"/>	<input type="text"/>	<input type="text"/>	0.00	Select Chemical
Total Percent: 0.00					Calculate

To generate waste cards, pop-ups must be enabled.

Hotlist Waste Card Name:

Select the appropriate container from the reusable container pulldown menu and continue with creating your waste card.

Pure Chemicals in Individual Containers

Creating waste cards for pure chemicals in individual containers is usually done when users wish to have chemical containers picked up as surplus, or when a lab is being cleared out.

Click the **Waste** button at the top of the CHEMATIX™ screen:



You will now see the opening page for **Waste Management** [WM402].

Scroll down to:

Manage Laboratory Waste
Create Waste Card
Edit Waste Card
Waste Card Hot List
Create Pickup Worksheet
1 Worksheets Submitted for Pickup

Click on the link [Create Waste Card](#) .

Click [Pure Chemicals in Individual Containers](#) .

Create Waste Card
Chemical Mixture by Percentage
Chemical Mixture by Quantity
Pure Chemicals in Individual Containers
Recyclable Materials
Paint and Paint Related Materials
Oil and Antifreeze
Aerosols
Gas Cylinders
Photo Chemicals

Pure Chemical Waste Card

General Information

Created By: Nick Gardner Phone Number: 555-666-7777
 Department Name: Biology Laboratory:
 Accumulation Start Date: Lab Barcode:

Chemical Information

For each pure chemical container:

- Do ONE of the following:
 - Container with barcode: Enter/scan the container barcode, then select 'Refresh'
 - Container missing barcode: Select 'Search' to look up the chemical information, change the quantity, container type & physical state, then select 'Refresh'
- Once complete, select 'Generate Waste Card'

Container Size	Container Type	Physical State	Chemical Name	CAS Number	Barcode	Quantity	
<input type="checkbox"/> 0.0	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>		<input type="text"/>	0.00	<input type="text" value="Select"/> <input type="text" value="Search"/>
<input type="checkbox"/> 0.0	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>		<input type="text"/>	0.00	<input type="text" value="Select"/> <input type="text" value="Search"/>
<input type="checkbox"/> 0.0	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>		<input type="text"/>	0.00	<input type="text" value="Select"/> <input type="text" value="Search"/>
<input type="checkbox"/> 0.0	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>		<input type="text"/>	0.00	<input type="text" value="Select"/> <input type="text" value="Search"/>
<input type="checkbox"/> 0.0	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>		<input type="text"/>	0.00	<input type="text" value="Select"/> <input type="text" value="Search"/>

Select the
 and the

There are two options for selecting chemicals

Option 1: Enter the barcode of the chemical container.
 For each chemical, scan or enter the container's barcode.

Enter the quantity/units of this chemical in the mixture.

Option 2: Search for and select a chemical by clicking

After clicking , you will now be transferred to page [WM453]:

Search for a Chemical

- ◆ Enter all or part of a chemical name and select "Search".
- ◆ Add a chemical to the waste card by selecting a chemical name from the list.
- ◆ If needed, add a new chemical to the CAD by selecting "Add New Chemical"

Chemical Name: begins with contains exact

CAS#: begins with contains

Enter the Chemical Name or the CAS# into the appropriate fields.

Click to search for your Chemical Name or CAS# in CAD.

Search for a Chemical

- ◆ Enter all or part of a chemical name and select "Search".
- ◆ Add a chemical to the waste card by selecting a chemical name from the list.
- ◆ If needed, add a new chemical to the CAD by selecting "Add New Chemical"

Chemical Name: begins with contains exact

CAS#: begins with contains

Search Results: Found 3 items.

CAS Number	Chemical Name
7647-01-0	Hydrochloric acid
68987-74-6	Hydrochloric acid, reaction products with aniline, 2,3-dihydro-1,4-dihydroxy-9,10-anthracenedione and 1,4-dihydroxy-9,10-anthracenedione
68132-38-7	Hydrochloric acid salt of polymerized triethanolamine partial tall oil acid ester (and-or salt); Polymerized triethanolamine, tall oil acid ester and/or salt, hydrochloric acid salt

Click the from the generated list (for example, Hydrochloric acid) to

Pure Chemical Waste Card

General Information

Created By: Shook, Al Phone Number: 877-700-2600
 Department Name: Chemical Engineering Laboratory:
 Accumulation Start Date:

Chemical Information

For each pure chemical container:

- Do **ONE** of the following:
 - Container with barcode: Enter/scan the container barcode, then select 'Refresh'
 - Container missing barcode: Select 'Search' to look up the chemical information, change the quantity, container type & physical state, then select 'Refresh'
- Once complete, select 'Generate Waste Card'

<input type="checkbox"/>	Container Size	Container Type	Physical State	Chemical Name CAS Number	Barcode	Quantity	
<input type="checkbox"/>	0.0000 <input type="text"/> <input type="button" value="Select"/>	<input type="button" value="Select"/>	<input type="button" value="Select"/>	Hydrochloric acid 7647-01-0	<input type="text"/>	0.0000 <input type="text"/> <input type="button" value="Select"/>	<input type="button" value="Change"/>
<input type="checkbox"/>	0.0000 <input type="text"/> <input type="button" value="Select"/>	<input type="button" value="Select"/>	<input type="button" value="Select"/>		<input type="text"/>	0.0000 <input type="text"/> <input type="button" value="Select"/>	<input type="button" value="Search"/>
<input type="checkbox"/>	0.0000 <input type="text"/> <input type="button" value="Select"/>	<input type="button" value="Select"/>	<input type="button" value="Select"/>		<input type="text"/>	0.0000 <input type="text"/> <input type="button" value="Select"/>	<input type="button" value="Search"/>
<input type="checkbox"/>	0.0000 <input type="text"/> <input type="button" value="Select"/>	<input type="button" value="Select"/>	<input type="button" value="Select"/>		<input type="text"/>	0.0000 <input type="text"/> <input type="button" value="Select"/>	<input type="button" value="Search"/>
<input type="checkbox"/>	0.0000 <input type="text"/> <input type="button" value="Select"/>	<input type="button" value="Select"/>	<input type="button" value="Select"/>		<input type="text"/>	0.0000 <input type="text"/> <input type="button" value="Select"/>	<input type="button" value="Search"/>

To generate waste cards, pop-ups must be enabled.

Enter the quantity/units of this chemical in the mixture.

After you have added all necessary chemicals to your waste card:

Click to view and print your Waste Card in PDF format.

Create a Waste Card Hotlist Item for Chemical Waste Mixtures

If a particular waste card with the same chemical contents is constantly being created, then it is useful to add this waste card to a hotlist in order to facilitate faster waste card creation.

After your Waste Card has been generated and printed, scroll down to the bottom of page [WM451].

To save the waste card to the hotlist:

- ◆ Input the name of the hotlist item(Optional).
- ◆ Click "Save To Hotlist" button

Hotlist Item Name:

Enter the name for this chemical mixture into the **Hotlist Item Name** field. This is the **Template Name** field.

Click .

Using the Hot List to Create Waste Cards

Click the button at the top of the CHEMATIX™ screen:



You will now see the opening page for **Waste Management** [WM402].

Scroll down to

Manage Laboratory Waste

[Create Waste Card](#)

[Edit Waste Card](#)

[Waste Card Hot List](#)

[Create Pickup Worksheet](#)

[1 Worksheets Submitted for Pickup](#)

Click on the link [Create Waste Card](#) .

If any hotlisted waste card have been defined, they should appear along with the standard waste card creation options.

Create Waste Card

Your Waste Card Hotlist

- [Bulk Hydroxide Waste](#)
- [Hydroxide Waste](#)

Global Waste Card Hotlist

- [Halogenated solvent - II](#)
- [Organic Solvents](#)

There are two hot lists that appear on the screen. Your Waste Card Hotlist refers to hot listed waste cards that you have defined. These waste cards are available for your use only and will not be visible to other CHEMATIX™ users. The Global Waste Card Hotlist refers to hot listed waste cards that have been defined by the institution and are available for use by all CHEMATIX™ users.

Click the hot listed waste card that you wish to use.

Chemical Mixture by Quantity Waste Card

General Information

Created By: Shook, AI Phone Number: 877-700-2600
 Department Name: Chemical Engineering Laboratory: 5144/360/Waste Treatment Research
 Accumulation Start Date: Container Type: Glass
 Container Size: 5.0 L pH Level: 9-12
 Physical State: Liquid

Chemical Information

To add a chemical:

- Scan a container, enter the constituent's quantity, select "Calculate". Once complete click "Generate Waste Card"
- Search for a chemical by selecting the "Select A Chemical" button, enter the constituent's quantity, select "Calculate", Once complete click "Generate Waste Card"
- Enter the chemical's name and CAS#, enter the constituent's quantity, select "Calculate". Once complete, click "Generate Waste Card"

Chemical Name	CAS Number	Barcode	Quantity	Change
<input type="checkbox"/> Ammonium Hydroxide	1336-21-6		950.00 mL	Change
<input type="checkbox"/> Calcium hydroxide	1305-62-0		23.00 fl oz	Change
<input type="checkbox"/> Sodium hydroxide	1310-73-2		2.40 L	Change

Total Volume: 3.902 L
 Total Mass: 0.00 kg

To generate waste cards, pop-ups must be enabled.

Information corresponding to the hot listed waste card will appear on the screen. This can be used as a template and you can update or change all of the inputted information on this page before generating your new waste card.

Edit Waste Card

Click the **Waste** button at the top of the CHEMATIX™ screen:



You will now see the opening page for **Waste Management** [WM402].

Scroll down to

Manage Laboratory Waste

[Create Waste Card](#)

[Edit Waste Card](#)

[Waste Card Hot List](#)

[Create Pickup Worksheet](#)

[1 Worksheets Submitted for Pickup](#)

Click on the link [Edit Waste Card](#) .

Edit a Waste Card

To edit an existing waste card:

- ◆ Type or scan in the waste card barcode below and click "Search"

To view a list of existing waste cards:

- ◆ Leave the search field blank and click "Search"

From this page, there are two choices to search an existing Waste Card:

Option 1: **Enter a waste barcode into the data field and click** .

Option 2: **Leave the search field blank and click** .

The list of Waste Cards in your lab(s) will be generated at the bottom of page [WM113]:

To edit an existing waste card:

- Type or scan in the waste card barcode below and click "Search"

To view a list of existing waste cards:

- Leave the search field blank and click "Search"

Waste Cards Not Scheduled For Pickup

Start Date	Building Name	Room Number	Lab Name	Waste Card Number	Container Size	Description
<input checked="" type="checkbox"/> 04/09/07	Swanson Chemistry Center	B16	Main Chemistry Lab	GITW000056	5.0 L	Methyl alcohol; Toluene
<input type="checkbox"/> 14/08/07	Campus Environmental Health & Safety	125	Test Center	GITW000053	2.0 L	Acetone; Hexane
<input type="checkbox"/> 06/07/07	Swanson Chemistry Center	B16	Main Chemistry Lab	GITW000042	1.0 L	Acetic anhydride


Select a checkbox next to a waste card and click the button if you wish to delete a waste card.

Click on a waste card number if you wish to edit, view, and print that Waste Card.

You will now be transferred to [WM475]:

Edit Waste Card

General information



NMEW00002G

Principal Investigator: Gardner, Nick
 Created By: Gardner, Nick
 Department Name: Biology
 Accumulation Start Date: 9/7/05
 Container Size/Unit: 3.0 / L
 Physical State: Liquid

Phone Number: 555-666-7777
 Laboratory: 426/401/Test Lab 3
 Lab Barcode: NMEW00005A
 Container Type: Glass
 PH Level: Select

Chemical Information

To edit a chemical:

- Scan a container, enter the constituent % (container total must = 100%), select "Calculate". Once complete click "Regenerate Waste Card"
- Search for a chemical by selecting the "Select A Chemical" button, enter the constituent % (container total must = 100%), select calculate, Once complete click "Regenerate Waste Card"

Chemical Name	CAS Number	Barcode	Percent (%)	
<input type="radio"/> Nitric acid	7697-37-2		25.00	<input type="button" value="Change"/>
<input type="radio"/> Hydrochloric acid	7647-01-0		75.00	<input type="button" value="Change"/>
			Total Percent: 100.00	<input type="button" value="Calculate"/>

You can update or change all of the inputted information on this page.

Create Pickup Worksheet

Once you are ready to submit your waste container for pickup by EHS, you must create a pickup worksheet and attach your waste cards to the worksheet.

To access this functionality, click the **Waste** button at the top of the CHEMATIX™ screen:



You will now see the opening page for **Waste Management** [WM402].

Scroll down to

<p>Manage Laboratory Waste</p> <p>Create Waste Card</p> <p>Edit Waste Card</p> <p>Waste Card Hot List</p> <p>Create Pickup Worksheet</p> <p>1 Worksheets Submitted for Pickup</p>
--

Click on the link [Create Pickup Worksheet](#)

Hazardous Materials Pickup Worksheet		
Created By:	Shook, Al	
Department:	Chemical Engineering	
Phone:	877-700-2600	
Email Address:	git@sivco.com	
Location:	Select <input type="button" value="v"/>	
Pickup Contact:	Shook, Al	
Pickup Contact Phone:	877-700-2600	
Instructions:	 	
Start Date	Waste Card	Container Size
<input type="button" value="Remove From Worksheet"/>	<input type="button" value="Save Worksheet"/>	<input type="button" value="Save & Submit for Pickup"/>

Select a laboratory location from the pulldown menu near the top of the page.



A generated list of Waste Cards in the laboratory location that you have selected will appear at the bottom of this page:

<u>Start Date</u>	<u>Location</u>	<u>Waste Card</u>	<u>Container Size</u>	<u>On Worksheet</u>
<input type="checkbox"/> 3/27/06	5144/360/Waste Treatment Research	GITW00001R	1.5 L	#52
<input type="checkbox"/> 3/27/06	5144/360/Waste Treatment Research	GITW00001S	5.0 L	#52
<input type="checkbox"/> 3/27/06	5144/360/Waste Treatment Research	GITW00001U	5.0 L	#52

Scroll down to the bottom of the generated Waste Cards on page [WM200]:

<input type="checkbox"/> 9/25/07	5144/360/Waste Treatment Research	GITW00005N	50.0 mL
<input type="checkbox"/> 10/30/07	5144/360/Waste Treatment Research	GITW00005O	9.0 L
<input type="checkbox"/> 10/30/07	5144/360/Waste Treatment Research	GITW00005P	5.0 L
<input type="button" value="Toggle"/>			
<input type="button" value="Add Selection(s) to Worksheet"/> <input type="button" value="View Details"/> <input type="button" value="Reprint Waste Card PDF"/>			

Click on one or more check boxes to select Waste Cards. Click to add the selected Waste Cards to the Worksheet. The selected Waste Card(s) will be added to your Worksheet.

Hazardous Materials Pickup Worksheet

Created By: Shook, AI
Department: Chemical Engineering
Phone: 877-700-2600
Email Address: git@sivco.com
Location: 917/339/Thermodynamics Lab
Pickup Contact: Shook, AI
Pickup Contact Phone: 877-700-2600
Instructions:

Start Date Waste Card Container Size

[Remove From Worksheet](#)
 [Save Worksheet](#)
 [Save & Submit for Pickup](#)

Start Date	Location	Waste Card	Container Size	On Worksheet
<input type="checkbox"/> 1/30/07	917/339/Thermodynamics Lab	GITW00004H	4.0 L	
<input type="checkbox"/> 12/10/07	917/339/Thermodynamics Lab	GITW00005M	5.0 L	#66
<input type="checkbox"/> 12/10/07	917/339/Thermodynamics Lab	GITW00005N	5.0 L	#67

[Toggle](#)

[Add Selection\(s\) to Worksheet](#)
 [View Details](#)
 [Reprint Waste Card PDF](#)

After you have added all necessary waste cards to your pickup worksheet:

Click [Save & Submit for Pickup](#) to submit the worksheet for pickup.

Note: Once you have submitted a waste card for pickup on a worksheet you will no longer be able to edit that worksheet.

View Submitted Worksheets

To view worksheets that you have submitted for pickup, click the **Waste** button at the top of the CHEMATIX™ screen:



You will now see the opening page for **Waste Management** [WM402].

Scroll down to

Manage Laboratory Waste

- [Create Waste Card](#)
- [Edit Waste Card](#)
- [Waste Card Hot List](#)
- [Create Pickup Worksheet](#)
- [1 Worksheets Submitted for Pickup](#)

Click on the [1 Worksheet Submitted for Pickup](#) link.

1 Submitted Worksheets

Worksheets submitted for pickup:

Location: **5144/360/Waste Treatment Research**
Dept: **Chemical Engineering**
Submitted Date: **8/21/07**
[WORKSHEET#2007-0045](#)

Click on the worksheet # of the submitted worksheet that you wish to view.

Hazardous Materials Pickup Worksheet												
Worksheet Number:		2007-0045										
Principal Investigator:		Shook, Al										
Created By:		Stark, Michelle										
Department:		Chemical Engineering										
Telephone:		877-700-2600										
E-mail Address:		git@sivco.com										
Location:		5144/Hanna Biocenter/360/Waste Treatment Research										
Pickup Contact:		Stark, Michelle										
Pickup Contact Phone:		877-700-2600										
Instructions:												
Waste Card Barcode	START DATE	Container Size	Container Type	Container State	pH Level	DOT Code	UN Code	Package Group	Waste Code	Content	CAS	Content Size
GITW000055	8/21/07	5.0 L	GLASS	LIQUID	9-12	To be reviewed				Calcium hydroxide	1305-62-0	23.0 fl oz
										Sodium hydroxide	1310-73-2	2.4 L
										Caesium hydroxide	21351-79-1	2.0 oz
										Ammonium Hydroxide	1336-21-6	950.0 mL
GITW000054	8/21/07	5.0 L	GLASS	LIQUID	9-12	3		II		Sodium hydroxide	1310-73-2	2.4 L
										Ammonium hydroxide	1336-21-6	950.0 mL
										Calcium hydroxide	1305-62-0	23.0 fl oz
Report Waste Card PDF		Print Pickup Worksheet										

You will be able to view the details of the worksheet that you have selected.

RadWaste

Instructor provides description of:

- Create Radioactive Waste Card
- Create Radioactive Material Pickup Worksheet
- View Unsent Radioactive Waste Pickup Sheet
- View Submitted Radioactive Waste Pickup Sheet

Exercise

[Create Radioactive Waste Card](#)

Click the  button at the top of the screen:



Radioactive Waste Management

You will now see the opening page for

Scroll down to

<p>Manage Laboratory Waste</p> <p>Create Radioactive Waste Card</p> <p>Create Radioactive Material Pickup Worksheet</p> <p>View Unsent Radioactive Waste Pickup Sheet</p> <p>View Submitted Radioactive Waste Pickup Sheet</p>

Click the [Create Radioactive Waste Card](#) link.

Radioactive Material Waste Card

General Information

Created By: Shock, Al Phone Number: 877-700-2600
 Department Name: Chemical Engineering Laboratory:

Waste Information

To enter a radioactive waste, please:

- Select a radioactive material from search
- Enter the content size and radioactivity level information
- Once complete, click "Generate Waste Card"

Radiation Source	Radioisotope	Vol/ Wt	Radionuclide Activity	Radioactivity Unit	Container surface contamination level Background/Gross (CPM)	Permit Number
<input type="text" value="Select"/>		0.0 <input type="text" value="Select"/>	0.0 <input type="text" value="Select"/>	MBq <input type="text" value="Select"/>	0.0 0.0	<input type="text" value="Select Isotope"/>
<input type="text" value="Select"/>		0.0 <input type="text" value="Select"/>	0.0 <input type="text" value="Select"/>	MBq <input type="text" value="Select"/>	0.0 0.0	<input type="text" value="Select Isotope"/>
<input type="text" value="Select"/>		0.0 <input type="text" value="Select"/>	0.0 <input type="text" value="Select"/>	MBq <input type="text" value="Select"/>	0.0 0.0	<input type="text" value="Select Isotope"/>
<input type="text" value="Select"/>		0.0 <input type="text" value="Select"/>	0.0 <input type="text" value="Select"/>	MBq <input type="text" value="Select"/>	0.0 0.0	<input type="text" value="Select Isotope"/>
<input type="text" value="Select"/>		0.0 <input type="text" value="Select"/>	0.0 <input type="text" value="Select"/>	MBq <input type="text" value="Select"/>	0.0 0.0	<input type="text" value="Select Isotope"/>

Select the **Laboratory:** that the radioactive waste is coming from.

Fill in the appropriate **Radiation Source**, **Vol/Wt**, **Radionuclide Activity**, **Radioactivity Unit**, **Container surface contamination level Background/Gross (CPM)** and **Permit Number** to describe the radioactive waste being created.

Radioactive Material Waste Card

General Information

Created By: Shook, Al Phone Number: 877-700-2600
 Department Name: Chemical Engineering Laboratory: 305/127/Corrosion Research

Waste Information

To enter a radioactive waste, please:

- Select a radioactive material from search
- Enter the content size and radioactivity level information
- Once complete, click "Generate Waste Card"

Radiation Source	Radioisotope	Vol/ Wt	Radioisotope Activity	Radioactivity Unit	Container surface contamination level Background/Gross (CPM)	Permits	Permit Number	Select Isotope	Select CAD
Solvent		1.0 L	50.0	MBq	100.0 100.0	Select	26343	Select Isotope	Select CAD
Select		0.0	Select	0.0 MBq	0.0 0.0	Select		Select Isotope	Select CAD
Select		0.0	Select	0.0 MBq	0.0 0.0	Select		Select Isotope	Select CAD
Select		0.0	Select	0.0 MBq	0.0 0.0	Select		Select Isotope	Select CAD
Select		0.0	Select	0.0 MBq	0.0 0.0	Select		Select Isotope	Select CAD

Generate Waste Card Remove Add More Rows

Since the **Radiation Source** selected is Solvent, you will have to **Select Isotope** for the radioisotope and **Select CAD** for the solvent that contains the radioisotope.

Click the **Select Isotope** button

Search for RAD

Isotope Name:

Isotope Number:

Atomic Number:

Isotope Symbol:

Search **Reset**

Cancel

Fill in one of the search fields to find the appropriate isotope and click the **Search** button.

Search for RAD

Isotope Name:

Isotope Number:

Atomic Number:

Isotope Symbol:

Symbol	Isotope Name	Isotope Number	Atomic Number	Atomic Weight	Half Life
<input checked="" type="radio"/> ¹²⁵ I	Iodine-125	125	53	124.904	59.408 Days
<input type="radio"/> ¹³¹ I	Iodine-131	131	53	130.906	8.0207 Days

Select the radio button beside the appropriate isotope and click the button.

Radioactive Material Waste Card

General Information

Created By: Shook, Al Phone Numbers: 877-700-2600
 Department Name: Chemical Engineering Laboratory: 805/127/Conosion Research

Waste Information

To enter a radioactive waste, please:

- Select a radioactive material from search
- Enter the content size and radioactivity level information
- Once complete, click "Generate Waste Card"

Radiation Source	Radioisotope	Vol/WT	Radioisotope Activity	Unit	Container surface contamination level Background/Gross (CPM)		Permits	Permit Number	
<input type="radio"/> Solvent	¹²⁵ I Iodine-125	1.0 L	50.0	MBq	100.0	100.0	Select	26343	Select Isotope Select CAD
<input type="radio"/> Select		0.0	Select	MBq	0.0	0.0	Select		Select Isotope
<input type="radio"/> Select		0.0	Select	MBq	0.0	0.0	Select		Select Isotope
<input type="radio"/> Select		0.0	Select	MBq	0.0	0.0	Select		Select Isotope
<input type="radio"/> Select		0.0	Select	MBq	0.0	0.0	Select		Select Isotope

Generate Waste Card Remove Add More Rows

Click the **Select CAD** button.

Search for Chemical

- Enter a combination of letters that it may contain and click "Search"
- Under search results, click on the chemical name
- To add new chemical, click "Add"

Chemical Name: begins with contains exact

CAS#: begins with contains

Search

Return

Fill in one of the search fields to find the appropriate solvent and click the **Search** button.

Search for Chemical

- ◆ Enter a combination of letters that it may contain and click "Search"
- ◆ Under search results, click on the chemical name
- ◆ To add new chemical,click "Add"

Chemical Name: begins with contains exact
 CAS#: begins with contains

[Search](#)

[Add New Chemical](#)

[Return](#)

Search Results: Found 3 items.

Chemical Name	CAS Number
Water	7732-18-5
Water-d2	007789-20-0
Watercress oil	068917-72-6

Click on the name of the appropriate solvent.

Radioactive Material Waste Card

General Information

Created By: Shook, Al Phone Number: 877-700-2600
 Department Name: Chemical Engineering Laboratory: 805/127/Corrosion Research

Waste information

To enter a radioactive waste, please:

- Select a radioactive material from search
- Enter the content size and radioactivity level information
- Once complete, click "Generate Waste Card"

Mediation Source	Radioisotope	Vol/Wt	Radioisotope Activity	Radioactivity Unit	Container surface Background/Screen (CPM)	Permits	Permit Number		
Solvent	¹²⁵ I Iodine-125 (Water)	1.0 L	50.0	MBq	100.0	100.0	Select	26343	Select isotope Select CAD
Select		0.0	Select	0.0	MBq	0.0	Select		Select isotope
Select		0.0	Select	0.0	MBq	0.0	Select		Select isotope
Select		0.0	Select	0.0	MBq	0.0	Select		Select isotope
Select		0.0	Select	0.0	MBq	0.0	Select		Select isotope

Generate Waste Card Remove Add More Rows

Click the **Generate Waste Card** button.