# 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:

Home Procurement Inventory Waste RadWaste Fiscal Resources Help

Scroll down to the Generate Hazards in My Area Report link, and click on it.

# Hazards in My Area

PEC

Peroxide Formers

Fetal Agents

<u>Teratogen</u>

Mutagen

Controlled substance

<u>Bioagent</u>

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.

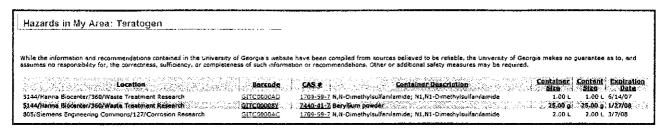
For example, a definition for a teratogen is given as:

**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:



#### 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

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



You will now see the opening page for



[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

<u>Aerosols</u>

Gas Cylinders

Photo Chemicals



General Information				
serierai informatio	11			
reated By:	Nick Gardner	Phone Number:	555-666-7777	
epartment Name:	Biology	Laboratory:	Select Location	
iccumulation Start Pate:	9/8/05	Lab Barcode:	<u> </u>	
ontainer Size:	0.0 L 📝	Container Type:	Glass	
'hysical State:	Liquid	PH Level:	Select 🕱	
hamical informati	on			
	on			
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o add a chemical:  • Scan a container,	enter the constituent's quantity, se	elect "Calculate". Once complete c mical" button, enter the constitue	lick "Generate Waste Card" nt's guantity, select calculate, Once complete ci	ick "Generate Wa
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o add a chemical:  Scan a container, Search for a chem Card* Enter the chemical:  Chemical:	enter the constituent's quantity, se iical by selecting the "Select A Che I's name and CAS≄, enter the cons	Parcode  Barcode  0.00  0.00  0.00  0.00  Total Volume: 0.00	nt's quantity, select calculate, Once complete of e*. Once complete, click "Generate Waste Card  Quantity  Select **	

#### 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 Selection Selection 

After clicking Selection 

Selection 

you will now be transferred to page [WM453]:



Search for a Chemical			
Enter all or part of a chemical name a			
<ul> <li>Add a chemical to the waste card by s</li> <li>If needed, add a new chemical to the</li> </ul>			
Chemical Name:	€ begins with	C contains	C exact
CAS#:	€ begins with	C contains	
Search Add New Chemical			
Reum			

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

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

Search for a Chemical		
Enter all or part of a chemical name     Add a chemical to the waste card b     If needed, add a new chemical to the	e and select "Search". y selecting a chemical name from the list. te CAD by selecting "Add New Chemical"	
Chemical Name: hydrochloric acid	e begins with C contains C exact	
CAS#:	e begins with C contains	
Securch Add New Chemical		
Return		
Search Results: Found 3 item	s.	
7647-01-0 Hydrochloric acid	Chemical Name	
68987-74-6 Hydrochloric acid, read	tion products with aniline, 2.3-dihydro-1.4-dihydroxy.9.10-anthra	
68132-38-7 <u>Hydrochloric acid salt i</u> and/or salt, hydrochlori	of polymenized triethanolamine partial tall oil acid ester (and-or said acid ester (and-or said salt	ait); Polymerized triethanolamine, tall oil acid ester

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



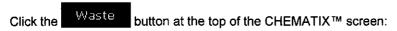
Chemical Mixture i	y Quantity Waste Ca	ırd	
General Information			
Created By:	Stevens, Tyler	Phone I	Number: 555-392-3885
Department Name:	Biology	Labora	tory: Select Location
Accumulation Start Date:	8/1/06	Contain	ner Type: Glass
Container Size:	0.0 Select	pH Leve	el: Select 👻
Physical State:	Liquid		
Chemical Information			
To add a chemical:			T
Search for a chemical       Card*	by selecting the "Select A Chem	nical" button, enter the	omplete click "Generate Waste Card" constituent's quantity, select "Calculate", Once complete click "Generate Waste "Calculate". Once complete, click "Generate Waste Card"
☐ Hydrochloric acid	7647-01-0	0.00 Selec	change Change
Γ		0.00 Selec	t 💌 Select Chemical
Г		0.00 Selec	t 💌 Select Chemical
r		0.00 Selec	t 🛨 Select Chemical
Г		0.00 Selec	s Select Chemical
			ume: 0.00 L lass: 0.00 kg Calculate
To generate waste cards, pop	-ups must be enabled.		
Generate Waste Card	Add More Rows Remove	Rows Reset	

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

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

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

#### By Percentage





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 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<sup>TM</sup> System Administrator. If you have any questions about the types of creatable waste cards, contact your Environmental Health and Safety personnel.

#### **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

<u>Aerosols</u>

Gas Cylinders

Photo Chemicals





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Create Waste Card				
General Information				
Created By: Shook, Al	Phone Number:			
Department Name: Chemical Er  Accumulation Start Date:	agineering Laboratory:  Container Type:	SelectLocation		
Container Size/Unit: 0.0	/ Select T pH Level:	Glass <u>T</u>		
Physical State: Liquid 🛨	, ,	,		
Chemical information				
To add a chemical:				
<ul> <li>Scan the container barcode.</li> <li>Enter the constituent % (the total MI)</li> <li>When complete, select "Generate Wi</li> </ul>	JST add up to 100% EXACTLY), select "Calculate". aste Card			
	Chemical Nama	CAS Number	Barcoda	Percent (%)
r				0.00 Select Chemical
C				0.00 Select Chemical
C			<u> </u>	0.00 Select Chemical 0.00 Select Chemical
, , , , , , , , , , , , , , , , , , ,				0.00 Select Chemical
,		Total Perce	i	Calculate
To generate weste cards, pop-ups must be	enabled.			
Generate Waste Card Remove R	ow Add More Rows Reset			
Hotlist Waste Card Name:	Save to Hollis	<u>L</u>		

Select	the	Accumulation Start Date:	Laboratory:	Container Size/Unit:	Container Type:
Physic	al Stat	e: and the PH Level:			

#### There are two options for selecting chemicals

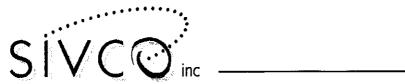
Option 1: Enter the barcode of the chemical container.

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 SelectChemical)

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



<ul> <li>Enter all or part of</li> <li>Add a chemical to t</li> <li>If peeded, add a peeded.</li> </ul>				
- 11 1100000, add a 11	ew chemical to t	the CAD by selecting	ical name froi g "Add New C	m the list. :hemical"
Chemical Name:		e begins with	Contains	Cexact
CAS#:		6 begins with		CAGO!

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

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

Search fo	r a Chemical
<ul> <li>Add a ch</li> </ul>	or part of a chemical name and select "Search". emical to the waste card by selecting a chemical name from the list. d, add a new chemical to the CAD by selecting "Add New Chemical"
Chemical Na	me: hydrochloric acid Spegins with Contains Cexact
CAS#:	© begins with C contains
Search	[Add New Chamical]
Return	
Search Re	esults: Found 3 items.
**************************************	eci ilipiantali ilipiantali ilipia ilipia ilipia ilipianta Chemical Name ilipianta anti alipianta albi ata albi
68987-7	11-0 Hydrochloric acid  4.6 Hydrochloric acid control of the first smaller of the first series of the firs

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



Create Waste Card	ungunikasi caminin meriti talapati ARRA AMARI AMARI AMARI ARRA ARRA ARRA					
General Information  Created By: Department Hame: Accumulation Start Date: Container Size/Unit: Physical State:	Shock, Al Chemical Engineering  0.0 / Select * Liquid *	Phone Number: 877-700 Laboratory: Salect Container Type: Glass pH Level: Select	Location	<u> </u>		
Chemical information  To add a chemical:  Scan the container bar Enter the constituent? When complete, select	code. 5 (the total MUST add up to 100% EXACTL' "Generate Waste Card"	Y), select "Calculate".				
C Hydrochloric scid	Chainteal Naoid			7647-01-0	0.00   0.00	Change   Select Chemical   Select Chemical   Select Chemical   Select Chemical
To generate waste cards, pop	rups must be anabled.		1	Total Percent: 0.00	Çakulate	
Generale Waste Card	Remove Row Add More Rows	Resel:				
Hollist Waste Card Name		Save to Hotist				,

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

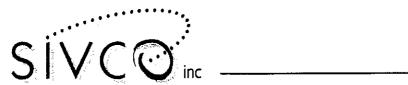
#### After you have added all necessary chemicals to your waste card:

Click Generate Waste Card 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 C	ard				400	
General Information						
Created By: Department Name: Accumulation Start Date: Container Size/Unit: Physical State:	Karolat, Jack Chemical Engineering  4.0 / L   Liquid    Liquid    Liquid    Liquid    Liquid    Liquid    Liquid     Liquid	Phone Number: Laboratory: Container Type: pH Level:	877-700-2600  917/339/Thermodynamics Lab  Unspecified  Glass Polyethylene Metal	ਤ		
Chemical Information  To add a chemical:  Scan the container bisert the constituent When complete, sele-		)% EXACTLY), select "Ca	Fiber Revisable Revisable Reviate*.			
	Chemical Name	•	OAL-SEA-STADELVA <b>CAS NUMB</b>	er Barco		rcent (%) Select Chemical Select Chemical Select Chemical
C C To generate waste cards, pop-	ours must be enabled.		Total Per	cent: 0.00	0.00 0.00 Calculate	Select Chemical
Generale Waste Card  Hotlist Waste Card Name:	Remove Row Add	1 More Rows Reset	 			

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

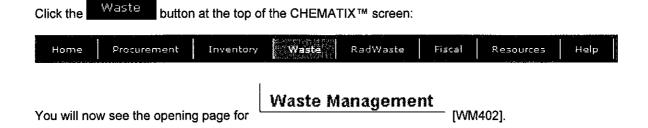


Create Waste C	Card					
General Information	ı					
Created By: Department Name: Accumulation Start Date: Container Size/Unit:	Karolat, Jack Chemical Engineering  [3] [4.0] / [	Phone Number: Laboratory: Container Type: pH Level:	877-700-2600 917/339/Thermodynamics Lab Reusable T			
Physical State:	Liquid 💌	Reusable Containers	s: GITQ00000Q L0008S 4.0 L 💌			
Chemical Informatic To add a chemical: Scan the container be Enter the constituent When complete, sele		% EXACTLY), select 'Calcul	ate".			
<b>12</b>	Chemica) Name	an madali en carego	CAS Number	Barcode		
ſ					0.00	Select Chemical
Ċ					0.00	Select Chemical
C				<u> </u>	0.00	Select Chemical
, ,					0.00	Select Chemical Select Chemical
,			Total Percent		Calculate	Select Chemical
To generate waste cards, pop-	ups must be enabled.		Total Percent	. 0.00		
Generate Waste Card	Remove Row Add	More Rows Reset				
Hotlist Waste Card Name:		Save to Hotist				

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.





#### 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

<u>Aerosols</u>

Gas Cylinders

Photo Chemicals



Pure Chemica	Waste Card					
General Informati	on					
Created By:	Nick Gardner		Phone Number:	555-666-7777		
Department Name:	Biology		Laboratory:	Select Location		
Accumulation Start Date:	10/11/05		Lab Barcode:			
Containe 'Refresh' Once complete,  Container Siz	r with barcode: Enter/scar r missing barcode: Select select 'Generate Waste ( cantelner Type select * Select *	t 'Search' to look up Card' oe Physical State Select	ode, then select 'Refre the chemical informati Chemical Name CAS	on, change the quantity, cont	0.00	Select Search
	elect 🛣 Select 🦹	Select 🐰			0.00	Select Search
	elect Select S	Select 🚆		ļ	0.00	Select Seeich
	elect 🐰 Select 🖔	Select			0.00	Select 3 Section
□  0.0   S	elect 🥞 Select 🛣	Select 💃		L	0.00	Select Seeich
						Refresh
Garielfate Waste Co	rd Remove Ac	id More Rows				

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



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:  CAS#:  Contains  Contains	• Enter all or part	of a chemical name a	and select "Searc	h".	
	<ul> <li>Add a chemical t</li> </ul>	o the waste card by s	selecting a chemi	cal name from	m the list. hemical"
AS#: 6 begins with C contains	hemical Name:		C begins with	C contains	C exact
• • • • • • • • • • • • • • • • • • • •	AS#:		f begins with	C contains	

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

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

Se	arch 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"
CI	namical Name: hydrochloric acid
C	AS#: Degins with Contains
l	Rewin:
s	earch Results: Found 3 items.
<del>-</del>	CAS Number
8	7647-01-0 Hydrochloric acid 68987-74-6 Hydrochloric acid; reaction products with aniline, 2.3-dihydro-1.4-dihydroxy-9.10 anthracanedions.
A)	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 Chemical Name from the generated list (for example, Hydrochloric acid ) to



Pure Chemical Was	ste Card					
General Information						
	Shook, Al Chemical Engineering	<u>-</u>	Phone Number: Laboratory:	877-700-2600 Select Location	<u> </u>	3
Chemical Information						
For each pure chemical contain						
	barcode: Enter/scan thing barcode: Select 'Se	earch' to look up th			er type & pl	nysical state, then select 'Refresh'
Container Size	Container Type	Physical State (	hemical Name CAS	Number Barcode	Qu	antity
Г 0.0000 Select	▼ Select ▼	Select 💆	tydrochloric acid 764	7-01-0	0.0000	Select Change
□ 0.0000 Select	Select ▼	Select 💆			0.0000	Select Search
□ 0.0000 Select	Select 💌	Select 💌		<u> </u>	0.0000	Select Search
□ 0.0000 Select	Select 👱	Select 💆			0.0000	Select Search
□ 0.0000 Select	Select 🔻	Select 💌			0.0000	Select Search
						Refresh
To generate waste cards, pop	-ups must be enabled					
Generale Waste Card	Remove Selected F	Rows Add Mo	e Rows			

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

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

Click Generale WesterCardin 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:		
<ul><li>Input the name of the hotlist item(Optional).</li><li>Click "Save To Hotlist" button</li></ul>		
Hotlist Item Name:	Save:To Hoti	<b>S</b> t.)

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

Click Save To Hetlist

## Using the Hot List to Create Waste Cards

Waste button at the top of the CHEMATIX™ screen: Click the Procurement Inventory RadWaste Fiscal Resources Help Home **Waste Management** [WM402]. You will now see the opening page for Scroll down to Click on the link Create Waste Card . Manage Laboratory Waste Create Waste Card Edit Waste Card Waste Card Hot List Create Pickup Worksheet 1 Worksheets Submitted for Pickup

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



#### **Create Waste Card**

#### Your Waste Can 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.

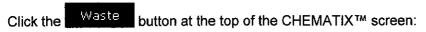
Click the hot listed waste card that you wish to use.

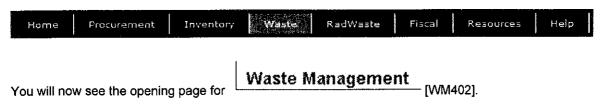


Chemical Mixture b	y Quantity Waste Card			
General Information				
Created By: Department Name: Accumulation Start Date: Container Size: Physical State:	Shook, Al Chemical Engineering  5.0 L Liquid	Phone Number: Laboratory: Container Type: pH Level:	5144/360/Waste	e Treatment Research ★
<ul> <li>Search for a chemical t</li> </ul>	me and CAS#, enter the constitue	I' button, enter the constituent	's quantity, select	'Calculate", Once complete click "Generate Waste Card"
C Ammonium Hydroxide	1336-21-6	950 O		Change
Calcium hydroxide	1305-62-0	23.00	fl oz	Change
☐ Sodium hydroxide	1310-73-2	2.40		Change
To generate waste cards, pop Generate Waste Card	ups must be enabled. Add More Rows   Remove R	<u> </u>	_	

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







#### 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"

Search

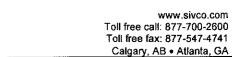
From this page, there are two choices to search an existing Waste Card:

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



Option 2: Leave the search field blank and click Search

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





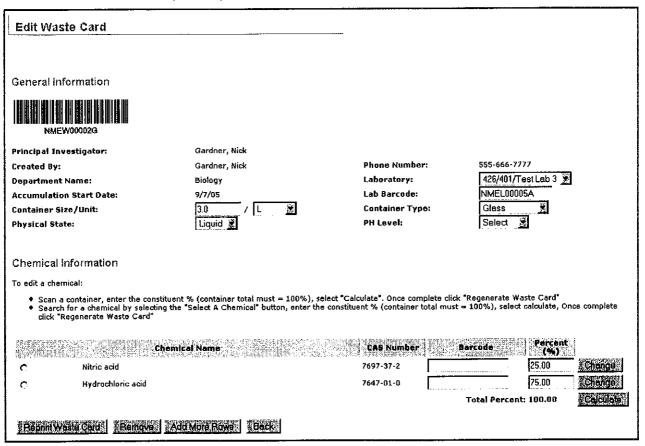
To edit an existing waste card:				
Type or scan in the waste card barcode below and or	click "Search"			
To view a list of existing waste cards:				
Leave the search field blank and click "Search"				
1				
Search Reset				
Waste Cards Not Scheduled For Pickup				,
Start Date Building Name.	Room Number	<u>Lab Name</u> X	/aste Card Coni Number S	lainer Description
© 04/09/07 Swanson Chemistry Center	816	Main Chemistry Lab	GITW000056	5.0 L Methyl alcohol; Toluene
14/08/07 Campus Environmental Health & Safety	<b>j25</b>	Test Center	GITW000053	2.0 L Acetone; Hexane
□ 06/07/07 Swanson Chemistry Center	B16	Main Chemistry Lab	GITW00004Z	1.0 L Acetic anhydride
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
- Harvertonia esta yengangangangangangangangangangangan				
Delete Selected Waste Cards				

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]:



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:



SIVCO Inc. - CHEMATIX<sup>TM</sup> Waste Management Module



#### 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 Pickup Worksheet

Hazardous Materials Pi	ckup Worksheet
Created By: Department: Phone: Email Address:	Shook, Al Chemical Engineering 877-700-2600 git@sivco.com
Location:	Select
Pickup Contact:	Shook, Al
Pickup Contact Phone:	877-700-2600
Instructions:	
Start Date Remove From Worksheet S	Waste Card Container Size  ave Worksheet 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:

Start Date	Location		itainer On	
Г <sub>3/27/06</sub>	5144/360/Waste Treatment Research	GITW00001R	<u>Size</u> <u>Works</u> 1.5 L	#52
厂 3/27/06	5144/360/Waste Treatment Research	<u>GITW000018</u>	/5.0 L	<u>#52</u>
□ 3/27/06	5144/360/Waste Treatment Research	<u>GITW00001U</u>	5.0 L	<u>#52</u>

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

厂 9/25/07	5144/360/Waste	Treatment F	Research	GITW00005	<u>N</u> 50.0 ml	140 mg 1,70 mg s
10/30/07	5144/360/Waste	Treatment R	Research	<u>GITW00005</u>	<u>o</u> 9.0 t	-
T 10/30/07	5144/360/Waste	Treatment F	lesearch	<u>GITW00005</u>	ខ្មី 5.0 (	HATAGA PORTA SELECTION ALTERNATION
Toggle						
Add Selection(s) to \	Vorksheet V	iew Details	Repr	int Waste Card PDF		

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



Hazardous Materials Pick	up Worksheet			
Created By: Department: Phone: Email Address: Location: Pickup Contact: Pickup Contact Phone:	Shook, Al Chemical Engineering 877-700-2600 git@sivco.com 917/339/Thermodyna Shook, Al 877-700-2600	mics Lab		
Instructions:				
Start Date Remove From Worksheet Sav	Waste Card e Worksheet   Saye & Su	Container Size		-
<u> Štart Date</u>	Location	<u>Waste Card</u>	Container Or Size Works	
- SALETT RESERVED OF SALE SERVED OF SALES SEE SERVICE SALES	rmodynamics Lab	<u>GITW00004H</u>	4.0 L	7 <i>000.</i> 148.5
Contract to the transfer to the contract of a contract of the	rmodynamics Lab rmodynamics Lab	<u>GITW00005M</u> GITW00005N	<b>5.0</b> U 5.0 L	<b>#66</b> #67
12/10/07 917/339/The	rmodynamics LdD	<u> 711 MAÑOGOÑ</u>	J.0 L	#01
Add Selection(s) to Worksheet	View Details Reprint W	laste 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:

Home Procurement Inventory Waste RadWaste Fiscal Resources Help

**Waste Management** 

You will now see the opening page for

[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

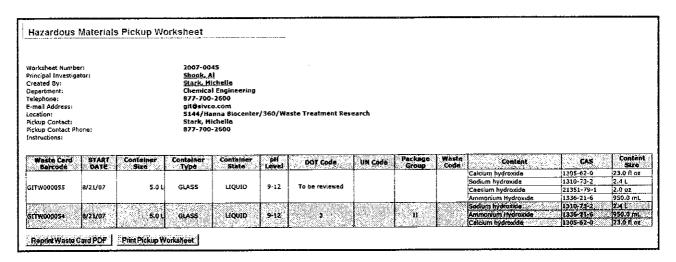
Worksheets submitted for pickup:

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.





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





You will now see the opening page for

# Radioactive Waste Management

#### Scroll down to

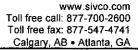
#### **Manage Laboratory Waste**

Create Radioactive Waste Card

Create Radioactive Material Pickup Worksheet

View Unsent Radioactive Waste Pickup Sheet

View Submitted Radioactive Waste Pickup Sheet





### Click the Create Radioactive Waste Card link.

C         Select         ∑         0.0         Select         ∑         0.0         0.0         0.0         Selecticolog           C         Select         ∑         0.0         MBq ±         0.0         0.0         Selecticolog								
Waste Information  To soler a radioactive waste, please:  *** Salect a radioactive material from search  ** Enter the content size and radioactivity level information  **Once complete, click "Generate Waste Card"  **Radioscope**  **Vol/Wt. ** Radioscofe** Salicet Endioactivity Container surface containing Soler Container Surface Contai	eneral Informat	ion						
To enter a radioactive waste, please:  * Select a radioactive material from search  * Enter the content size and radioactivity lavel information  * Once complete, click "Generate Waste Card"  **Radioactive Solver*  **Radioactive Sadioactive Sadioactive Sadioactive Containing surface containing story face containing surface containing story face conta	•	*		 Ĭ.				
* Select a radioactive material from search  * Enter the content size and radioactivity level information  * Once complete, click "Generate Waste Card"  * Parmit Source  * Radioactope  * Radioactope  * Permit Montes  * Cootainer surface containination level surface containination level sectority  * Permit Windows  * Cootainer surface containination level sectority  * Permit Windows  * Cootainer surface containination level sectority  * Permit Windows  * Cootainer surface containination level sectority  * Permit Windows  * Cootainer surface containination level sectority  * Permit Windows  * Cootainer surface containination level sectority  * Permit Windows  * Cootainer surface containination level sectority  * Permit Windows  * Cootainer surface containination level sectority  * Permit Windows  * Cootainer surface containination level sectority  * Permit Windows  * Cootainer surface containination level sectority  * Permit Windows  * Cootainer surface containination level sectority  * Permit Windows  * Cootainer surface containination level sectority  * Permit Windows  * Cootainer surface containination level sectority  * Permit Windows  * Cootainer surface containination level sectority  * Permit Windows  * Cootainer surface containination level sectority  * Permit Windows  * Cootainer surface containination level sectority  * Permit Windows  * Permit Windows  * Permit Windows  * Cootainer surface containination level sectority  * Permit Windows  * Permit Windows	Vaeta Informatio	ın						
Enter the content size and redioactivity level information     Once complete, click "Generate Waste Card"    Radiosiscippe   Yol/WI   Radiosiscide Radioactivity   Section   Radiosiscippe   Permit   Number   Containing surface   Contain	raste implimació	•••						
+ Once complete, click "Generate Waste Card"    Padilatten Source   Padilatten Source   Patriol   Padilate   Patriol   Padilate   Patriol   Patri								
Radioscope   Yol/WI   Radioscope   Permit   Number   Number   Permit   Number   Permit   Number   Permit   Number   Pe	o enter a radioactive  • Select a radioa	waste, piease: ctive material from search	1					
C         Select         ▼         0.0         Select         ▼         0.0         Select         ▼         0.0         Select         ▼         0.0         0.0         Select         №         №         ▼         0.0         0.0         Selection         Selection<	o enter a radioactive  • Select a radioa  • Enter the conte	waste, please: ctive material from search nt size and radioactivity le	evel information					
C         Select         Y         0.0         Select         Q.0         MBq Y         0.0         0.0         Select Isolo           C         Select         Y         0.0         MBq X         0.0         0.0         Select Isolo	o enter a radioactive  • Select a radioa  • Enter the conte  • Once complete	waste, please: ctive material from search nt size and radioactivity le	evel information ard	Yor/ <del>li</del> n	Radionucii Activity	ide Sadloactivity Voit	contamination level	
C Select 9 00 Select 9 00 MBq 9 00 00 Selection	enter a radioactive     Select a radioa     Enter the conte     Once complete     Eadlatton     Source	waste, please: ctive material from search nt size and radioactivity le , click "Generate Waste C	evel information ard	<u> </u>	Activity	Unit	contamination level Background/Gross (CPN)	Səleci isolopə
C Salest # 100 MRg # 100 100 Select isolo	o enter a radioactive  • Select a radioa • Enter the conte • Once complete  Radiation Source  C Select	waste, piease: ctive material from search nt size and radioactivity le , dick "Generate Waste C	evel information ard	00 Select	Activity 0.0	Unit MBq ⊻	Contamination level Background/Gross (CPH)  0.0 0.0	Selectisokope Selectisokope
A Casterri Ti fro : I uned Ti fee   fee	o enter a radioactive  • Select a radioa • Enter the conte • Once complete  Radiation Source  C Select  Select	waste, please: ctive material from search nk size and radioactivity le , click "Generate Waste C	evel information ard	00 Select	Activity 0.0 0.0	MBq 💆	Contamination level   Background/Gross   CPN	
C Salect ▼ 0.0 Select ▼ 0.0 MBq ▼ 0.0 0.0 Select(solo	o enter a radioactive  • Select a radioa • Enter the conte • Once complete  Radiation Source  C Select  Select	waste, please: ctive material from search nk size and radioactivity le , click "Generate Waste C	evel information ard	00 Select	Activity 0.0 0.0 0.0	MBq 💆	Contamination level   Background/Gross   CPN	Selectisolope
C   Select ♥   100   MRa ♥   100   100   Select	o enter a radioactive  • Select a radioa  • Enter the conte	waste, please: ctive material from search nt size and radioactivity le	evel information					

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

Container surface contamination level Background/Gross Radionuclide Radiation Radioactivity Vol/Wt Activity (CPM) Source Unit Fill in the appropriate Permit Number

to describe the radioactive waste being created.

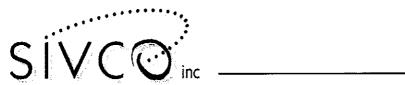


Radioactive M	laterial Waste Ca	rd									
General Informat	ìon										
Created By:	Shook, Al	Phone Number:			·						
vepariment Name:	Chemical Engineering	Laboratory:	805/127/Corresion Re	search	21						
Waste Information	n										:
To enter a radicactive	waste, please:										
<ul> <li>Enter the conte</li> </ul>	ctive material from search of size and radioactivity it , click "Generate Waste C	evel information									
		Corosissisos					Contain	er surface	NS4483		;
Radiation Source	R	adioisotope	Yo	l/wa	Radionuciid Activity	e Radiosctiviti Unit	r contami Backgro	sation leve aind/Gross PM3	Permits	Permit Number	
Solvent	3	#8.487.4 <sub>8</sub> 0.18.42 - 12.07.180	1.0	[L] ₹	50.0	MBq <b>▼</b>	100.0	100.0	Select 💌	26343	Selectisciope Select CAD
C Select	<b>9</b>		0.0	Select *	0.0	МВq <b>▼</b>	0.0	0.0	Select 🕏		Selectisotope
Select	Ē		0.0	Select 🛨	0.0	МВа	0.0	0.0	Select 💌		Selectisotope
Select	<u> </u>		0.0	Select 💌	0.0	MBq ★	0.0	0.0	Select 💌		Selectisotope
Select	J		00	Select 🛨	0.0	MBq ▶	0.0	00	Select 💌		Seleci Isolope
Generate Waste Ca	ard Remove Ad	d More Rows									

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

Click the Select	<b>Isotope</b> button
Search fo	r RAD
Isotope Name:	
Isotope Numbe	r:
Atomic Number	:
Isotope Symbo	l:
Search 1	Reset

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



Search for R	AD			
Isotope Name: Isotope Number: Atomic Number: Isotope Symbol:	iodine			
Search Rese	300 <b>00</b>			
	pe Name Isotopi	e Number Atomic	Number Atom	ic Weight Half Life
125 Iodine	:-125	125	53	124.904 59.408 Days
C 131] Iodine	-131	131	53	130.906 8.0207 Days
Add to Waste Ca	rd			

Select the radio button 6 beside the appropriate isotope and click the Add to Waste Card button.



Radioactive	Material Waste Car	ď									
General Inform Created By: Department Nan	ation Shook, Ai ne: Chemical Engineering	Phone Number: 877-709-2600 Laboratory: 805/127/Con		earch	· ·						
Waste Informa	ion										
To enter a radioacti	ve waste, please:										
<ul> <li>Enter the cor</li> </ul>	pactive material from search stent size and radioactivity la se, click "Generate Waste Co	vel information									
Radiation Source	<u>u</u>	sdiotsolopa	Vol/	Wt	Radionucida Activity	Radioactivity Unit	containin Backgrou	ir surface ation level ind/Gross PM)	Permits	, Permit Number	
Solvent	125 I Iodine-125	ſ	1.0	l 🗦	50.0	MBq ≠	100.0	100.0	Select 🕒	26343	Select Isolope Select CAD
Select	Ĭ	F	0.0	Select 🕏	0.0	MBq <b>★</b>	0.0	0.0	Select 🔻	ſ	Selectionope
Select	<u> </u>	ļ	0.0	Select 💌	[0.0	MBq <u>▼</u>	0.0	00	Select 💆	f	Selectisolope
Select	*	P	0.0	Select 🔻	0.0	МВq ☀	0.0	0.0	Select *		Select Isotope
C Setect	<u> </u>	F	0.0	Select 💆	0.0	MBq <u>▼</u>	0.0	0.0	Select 💌		Select isotope
Generate Waste	Card Remove Ad	I More Rows									

Click the Select CAD button.

Search for Chemica	al
<ul> <li>Under search results, c</li> </ul>	letters that it may contain and click "Search" lick on the chemical name
• To add new chemical,cl	© begins with C contains C exact
CAS#:	€ begins with ← contains
Search	

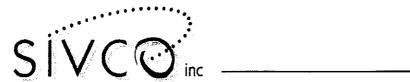
Fill in one of the search fields to find the appropriate solvent and click the Search button.



Search for Chemical		
<ul> <li>Enter a combination of letters that it</li> <li>Under search results, click on the ch</li> <li>To add new chemical, click "Add"</li> </ul>	: may contain an nemical name	d click "Search"
Chemical Name: water	• begins with	Contains Cexact
CAS#:	• begins with	C contains
Search Add New Chemical Return		
Search Results: Found 3 items.		
Water Water-d2 Watercress oil	cal Name	CAS Number 7732-18-5 002789-20-0 068917-72-6

Click on the name of the appropriate solvent.





Radioactive Material Waste Card						
	te Number: a77-709-2500 ratory: 805/127/Conosion Researc	h <u>·</u>				
Waste information						
To enter a radioactive waste, please:						
<ul> <li>Select a radioactive material from search</li> <li>Enter the content size and radioactivity level info</li> <li>Once complete, click "Generate Waste Card"</li> </ul>	rmation					
Nadiation Redictson	tope Vol/Wt	Redionuclide R Activity	adioactivity Unit	Container surface contamination leve Background/Gross (CPM)	l Permits Permit Number	
C Solvent Z 125 I lodine-125	1.0 L	<b>∮</b> [50.0	MBq <b>y</b>	100.0	Select <u>Y</u> 26343	Select (sotope Select CAO
C Select	0.0 Sele	ect 🥦 0.0	MBq <b>y</b>	0.0	Select 🔻	Select solope
C Select 3	0.0 Sele	ect 🦻 0.0	MBq ₹	0.0	Select 💌	Select isotope
C Select 🗵	0.0 Sel	ect 🔻 0.0	MBq →	0.0 0.0	Select 💌	Selectiectope
Select 🔀	0.0 Sele	ect 🛨 00	MBq 🔻	0.0 0.0	Select 🛣	Selectisolope
Generate Weste Card Remove Add More	Rows					

Click the Generate Waste Card button.