

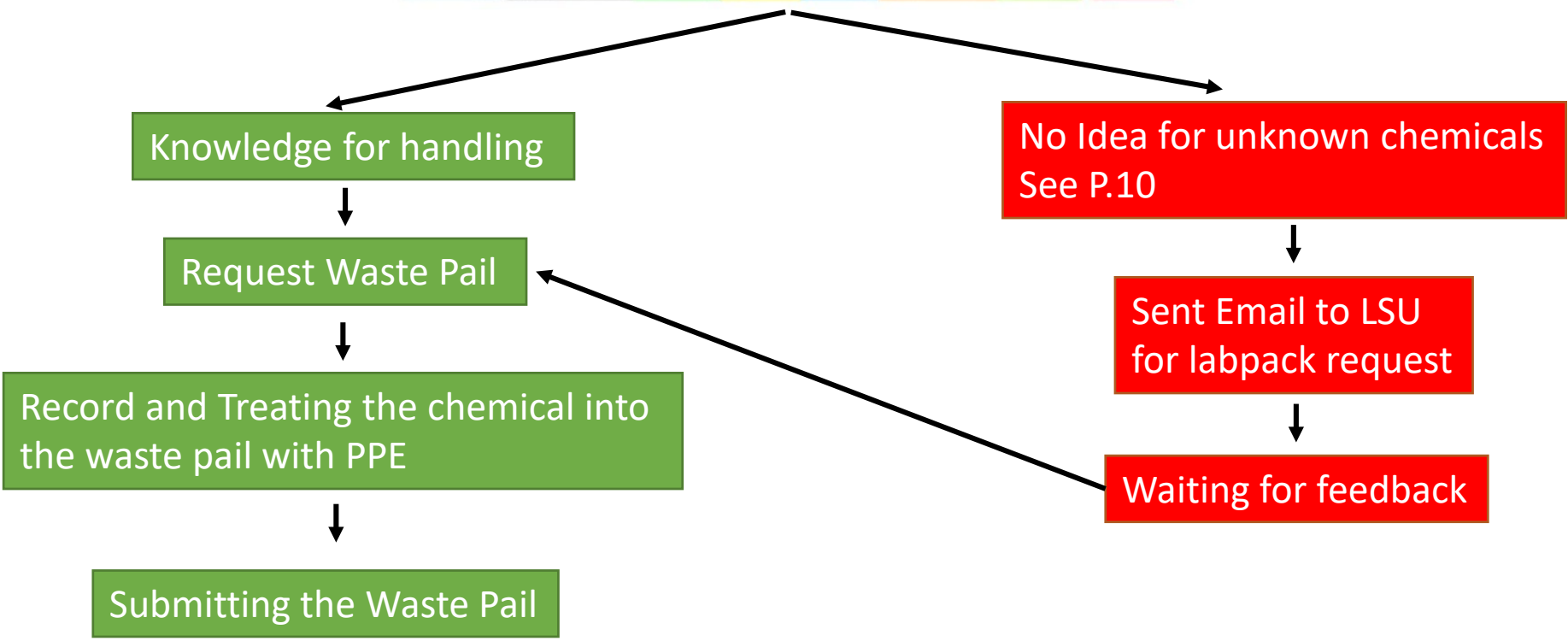


Department of  
Materials Science and Engineering

香港城市大學  
City University of Hong Kong

# Chemical Waste Guideline

# Treating the Chemical Waste



Since the regular chemical collection is scheduled on every **Thursday 15:15**, please inform FMO CCT (Chemical Control Team [vprtlsucct@cityu.edu.hk](mailto:vprtlsucct@cityu.edu.hk)) **before Wednesday** if there's any chemical waste pail you would like FMO to prepare for you.

## Example

Submit Waste to FMO			Request Waste from FMO		
Name of Waste	Waste Code	Quantity	Name of Waste	Waste Code	Quantity
Unwanted Solid Organic	10147989	1	Unwanted Solid Organic	10147989	2
Unwanted Inorganic Solid	10401108	1	Unwanted Flammable Metal	10401107	1
Spent Nitric Acid	10040647	1	Unwanted Inorganic Oxidizer	10420131	1
Unwanted Alkaline Inorganic Solid	10196820	1			
Spent Acid Oxidizing	10206069	1			
Spent Acid	10040645	1			

**EXAMPLE**

# Waste Pail Collecting

Recognize your chemical to related waste pail. The common waste code pail as follow.

Name of Waste	Waste Code	Gold Form	Name of Waste	Waste Code	Gold Form
Spent Non Halo Solvent	10040640		Ammonia Solution, Lab	10106695	
Spent Halo Solvent	10040644		Unwanted Oil Spill Dispersant	10112509	
Spent Acid	10040645		Unwanted Organic Solvent	10246957	GOLD8
Spent Lub Oil	10040646		Unwanted Solid cyanide	10147991	
Spent Nitric Acid	10040647		Unwanted Alkaline Inorganic Solid	10196820	
Spent Fluoroboric Acid	10040648		Cyanide Solution	10148315	
Spent Etchant	10040649		Unwanted Inorganic oxidizer	10420131	GOLD5
Spent Alkali, Fixer & Developer	10040659		Unwanted Acidic Inorganic Solid	10401108	
Spent Iron (III) Chloride, Etchant	10041322		Unwanted Mercury Compounds	10426468	
Spent Alkali, Sodium Hydroxide	10041323		Unwanted Polychlorophenols	10500107	
Spent Alkaline w/metal	10041324		Unwanted Non Halo Organic	10206016	
Spent Acid Organic, Etchant	10044831		Unwanted Water Reactive Compounds	10208049	GOLD1
Spent Cutting Fluid	10048678		Unwanted Sodium Borohydride	10420458	GOLD3, EPD
Spent Pesticide in Hexane	10052125		Unwanted Nitro Compound	10500213	GOLD7
Spent Non Halo Acrylic, Lab	10052465		Unwanted Metal, Dangerous when wet	10421935	GOLD2
Spent Bromine Solution, Lab	10064415		Unwanted Mercaptan Compound	10511834	
Unwanted Bromine, Lab	10070774		Unwanted Organic Solvent in Glass Vials	10507055	
Spent Solid materials w/Mercury, LAB	10099841		Unwanted Flammable Metal	10401107	GOLD3
Spent Lean Organic, LAB	10100267				

If you can't find the waste code for your waste, please send the request to LSU.

Some of chemical is need a GOLD form, please get the form from LSU.

# Waste Pail Submitting

Pour your diluted chemical into the waste pail



Secondary Container is a must

## Fill in the Chemical Waste Log Sheet

City University of Hong Kong  
CHEMICAL WASTE LOG SHEET

CWNP#: 9311-268-C2864-01      Log Sheet No.: \_\_\_\_\_  
 Department and Laboratory: Materials Science and Engineering (MSE)  
 Contact Person: Chan Tai Man      Tel. No.: \_\_\_\_\_  
 Type of waste: Spent Acid      CWIF-ID: 10040645  
 Container#: \_\_\_\_\_ (Fill in by Ecospace)

Item	Date	Description (Reagents, Reaction and possible product)	Vol. (ml)	Sign
1	8 Jun 2020	Cerium(III) <del>chloride</del> <u>heptahydrate</u>	1000	<i>Chan</i>
2	8 Jun 2020	Chromium III chloride	500	
3	16 Nov 2020	<u>Hydrobromic</u> acid x 2	1000	
<div style="border: 2px solid red; padding: 10px; transform: rotate(-5deg); display: inline-block; font-weight: bold; font-size: 2em;">EXAMPLE</div>				
From 5 Jun 2020 to 2 Jul 2020				



User is requested to

- 1) use lift 3, 9, or 16 for chemical waste delivery only
- 2) use ground floor for chemical waste delivery only



Collecting point at Cheng Yick-chi Building

Every Thursday at 15:15-15:30, [get the latest update from Chemical Control Team](#)  
[Email: vprrtsucct@cityu.edu.hk/ CCT first](mailto:vprrtsucct@cityu.edu.hk)



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# Chemical Waste Guideline

(For Treating Unknown Chemical)

For Unknown Chemical, please send email submit your request to LSU.

The “Labpack Waste Profile-Blank Form” will be provide by LSU. Please fill in the form and submit to them.

Producer Name	City University of Hong Kong (MSE)	CWPN	9311-268-C2864-0	Date					
Contact Person		Phone No.		Fax No.					
Title		Fume hood available? (Yes / No)		Email					
Producer Address									
Work area description (e.g. ventilation)									
* Physical State: S = Solid; L = Liquid; M = Mixed / Other (describe)			** Container / Lid Types: G = Glass; P = Plastic; M = Metal						
Item No.	No of Bottle(s)	Chemical Name	Chemical Formula	Physical State *	Container Size (ml)	Container Type **	Lid/Cap Type **	Weight (g) or Volume (ml)	Remarks (Container Condition, Special Packing, etc)
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									



## Follow the pre-treatment instruction after the feedback.

Labpack Waste Classification List - Matched							
Waste Name	Waste Ctnr Code	Code	Color	Pre-Treatment	CWTFID	Item	Remark
SPENT ACID, LAB	L48	A	X	WHT11 DISSOLVE & DILUTE W/ WATER INTO ~10% (i.e. -WASTE:WATER=1:10) AND THEN TRANSFER INTO OUR PAIL.	10040645		
SPENT ALKALI, LAB	L58	A	X	WHT3 DISSOLVE & DILUTE W/ WATER INTO ~10% (i.e. -WASTE:WATER=1:10) AND THEN TRANSFER INTO OUR PAIL.	10041324		

Labpack Waste Classification List - Matched							
Waste Name	Waste Ctnr Code	Code	Color	Pre-Treatment	CWTFID	Item	Remark
SPENT NON-HALO ORGANIC, LAB	L43	B	X	BURG1 TRANSFER LIQUID WASTE INTO OUR PAILS.	10040640	4	19 23
UNWANTED ACIDIC ORGANIC	L43	A	X	BURG5 TRANSFER LIQUID WASTE INTO OUR PAILS.	10205698	7	20
UNWANTED SOLID ORGANIC, LAB	S43	I	X	BURGU WRAP EACH BOTTLE W/ PLASTIC BAG & THEN PUT THE BOTTLE INTO OUR PAILS (ANY METAL CAP/LID MUST BE REMOVED FROM THE BOTTLES).	10147989	2	3 6 13 14 15 21
UNWANTED WATER REACTIVE COMPOUNDS, LABPACK	M38	I	X	GOLD1 MAKE SURE THE LID IS TIGHTLY ENCLOSED AND THE BOTTLE IS NO LEAKING. WRAP EACH BOTTLE WITH PLASTIC BAG AND PACK IN A CARTON BOX. PUT THE CARTON BOX INTO OUR 20-L PLASTIC PAIL FOR RECEIVING.	10208049	8	9 18

Labpack Waste Classification List - Matched							
Waste Name	Waste Ctnr Code	Code	Color	Pre-Treatment	CWTFID	Item	Remark
UNWANTED SOLID CYANIDE, LAB	S96	I	X	BLACK WRAP THE BOTTLE W/ PLASTIC BAG & THEN PUT THE BOTTLE INTO OUR PAIL.	10147991	24	
UNWANTED PHARMACEUTICAL WASTE, SOLID	S40	I	X	BUR13 WRAP EACH BOTTLE W/ PLASTIC BAG & THEN PUT THE BOTTLE INTO OUR PAILS.	10441711	4	5 6 10 12 13 15 20
UNWANTED SOLID ORGANIC, LAB	S43	I	X	BURGU WRAP EACH BOTTLE W/ PLASTIC BAG & THEN PUT THE BOTTLE INTO OUR PAILS (ANY METAL CAP/LID MUST BE REMOVED FROM THE BOTTLES).	10147989	2	3 7 8 9 14 17 18 19 22
UNWANTED WATER REACTIVE COMPOUNDS, LABPACK	M38	I	X	GOLD1 MAKE SURE THE LID IS TIGHTLY ENCLOSED AND THE BOTTLE IS NO LEAKING. WRAP EACH BOTTLE WITH PLASTIC BAG AND PACK IN A CARTON BOX. PUT THE CARTON BOX INTO OUR 20-L PLASTIC PAIL	10208049	11	