

SCHEDULED WASTE MANAGEMENT

HARYANI AZAHARI
SCIENCE OFFICER
JPPHB



Hello

Saya Haryani Azahari

- B. Eng, (Chemical Engineering), UiTM
- M .Eng (Safety, Health, Environment), UM
- Quality Engineer , Globetronics (M) Sdn . Bhd
- Process Engineer, Freescale Semiconductor.
- Training Engineer, Flextronics (M) Sdn. Bhd.
- Senior Science Officer , Department of Civil Engineering & Deputy Dean Development Office, Faculty of Engineering (9 Years)
- Secretary , Faculty Safety & Health Committee (5years)
- Currently in Schedule Waste Management Unit, JPPHB
- Competent Person in Certified Environmental Professional In Scheduled Waste Management
- Trained in 5S, CHRA and Safety & Health Course
- Trained for 6 Sigma and SPC
- Trained in ISO 17025 & ISO 9001



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012-2228127

03-79673395


Environmental Quality Act 1974

Environment Quality (Scheduled Waste) Regulation 2005



OBJECTIVES OF ENVIRONMENT QUALITY (SCHEDULED WASTE) REGULATION 2005

To ensure proper management of scheduled wastes



To prevent pollution of schedule wastes into the environment



To monitor the movement of scheduled wastes and to ensure that scheduled waste are handled at licensed facility

REGULATION 1 -17
ENVIRONMENTAL
QUALITY
(SCHEDULED
WASTE) 2005

Regulation 1 : Citation and commencement

Regulation 2 : Interpretation

Regulation 3 : Notification of the generation of scheduled wastes

Regulation 4 : Disposal of scheduled wastes

Regulation 5 : Treatment of scheduled wastes

Regulation 6 : Recovery of material or product from scheduled wastes

Regulation 7 : Application for special management of scheduled wastes

Regulation 8 : Responsibility of waste generator

Regulation 16 : COMPOUNDING OF OFFENCES

Regulation 9 : Storage of scheduled wastes

Regulation 10 : Labelling of scheduled wastes

Regulation 11 : Wastes generator shall keep an inventory of scheduled waste

Regulation 12 : Information to be provided by waste generator, contractor and occupier of prescribed premises

Regulation 13 : Scheduled wastes transported outside waste generator's premises to be accompanied by information (wastes card)

Regulation 14 : Spill or accidental discharge

Regulation 15 : Conduct of training

Regulation 17 : Revocation



Identification, classification and properties of hazardous waste



WHAT IS SCHEDULED WASTE



- **TOXIC** AND **HAZARDOUS** WASTE
- LISTED IN **FIRST SCHEDULE**



4 ways of Scheduled Wastes identification

1. Sources of waste generated
2. Types of process or activities
3. Physical and chemical composios of the waste
4. SDS – Safety Data Sheet of (the raw material used)

SCHEDULED WASTE IDENTIFICATION AND CLASSIFICATION

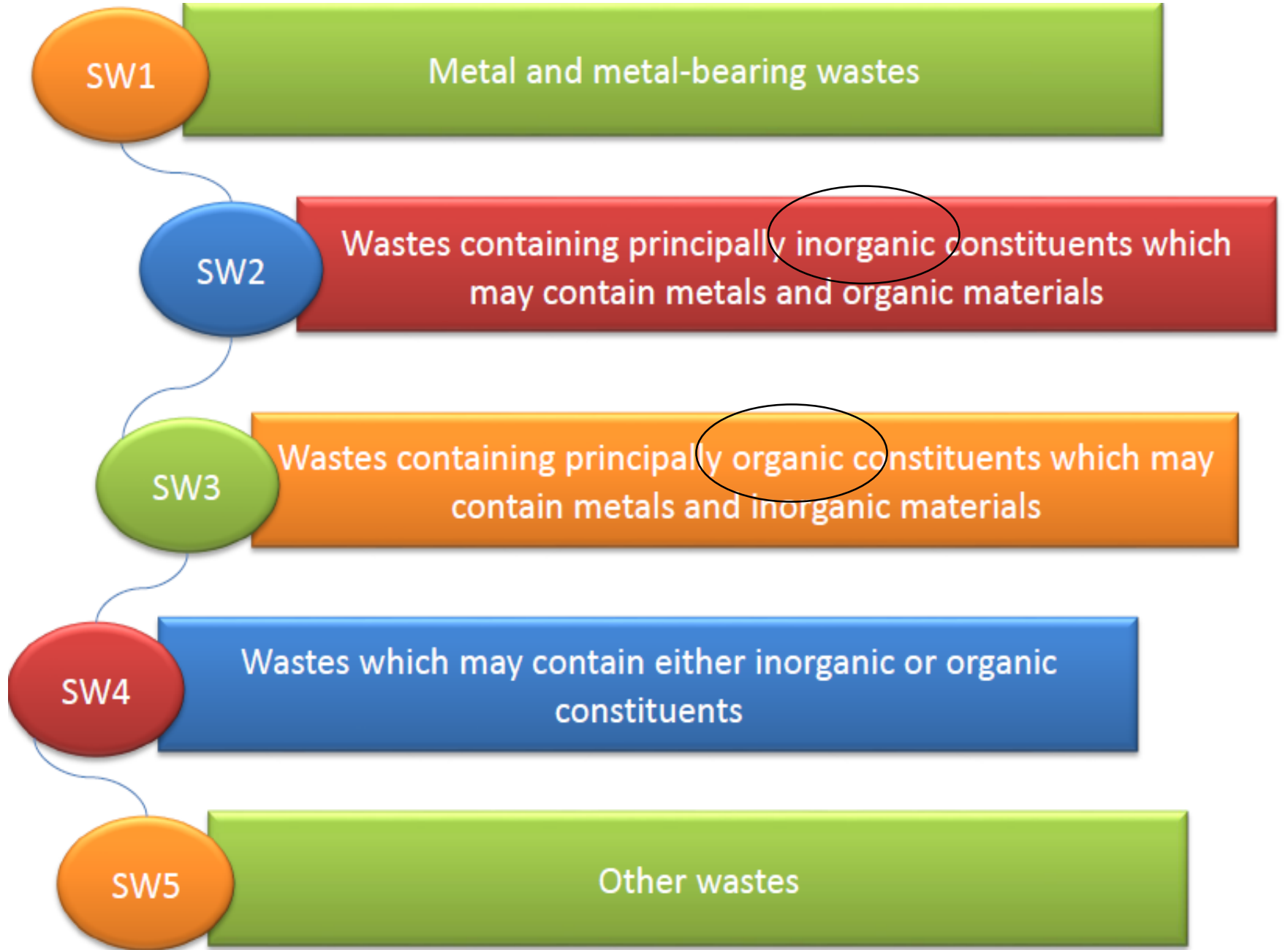
FIRST SCHEDULE

FIRST SCHEDULE (REGULATION 2)

CODE	DESCRIPTION
SW 1	Metal and metal-bearing wastes
SW 101	Waste containing arsenic or its compound
SW 102	Waste of lead acid batteries in whole or crushed form
SW 103	Waste of batteries containing cadmium and nickel or mercury or lithium
SW 104	Dust, slag, dross or ash containing arsenic, mercury, lead, cadmium, chromium, nickel, copper, vanadium, beryllium, antimony, tellurium, thallium or selenium excluding slag from iron and steel factory
SW 105	Galvanic sludges
SW 106	Residues from recovery of acid pickling liquor
SW 107	Slags from copper processing for further processing or refining containing arsenic, lead or cadmium
SW 108	Leaching residues from zinc processing in dust and sludges form
SW 109	Waste containing mercury or its compound
SW 110	Waste from electrical and electronic assemblies containing components such as accumulators, mercury-switches, glass from cathode-ray tubes and other activated glass polychlorinated biphenyl-capacitors, or contaminated with cadmium, mercury, lead, nickel, chromium, copper, lithium, silver, manganese or polychlorinated biphenyl

LIST OF
SCHEDULED
WASTE

**77 SW
CODES**





WASTE GENERATOR

PERSON WHO GENERATES WASTES

CRADLE TO GRAVE PRINCIPLE



WASTE GENERATOR



WASTE CONTRACTOR
(TRANSPORTER)



WASTE TREATMENT AND
DISPOSAL FACILITIES
(PRESCRIBED PREMISES)

WASTE GENERATOR

*Reg 8 Responsibility of
waste generator*



Notify generation of wastes – Schedule 2



Reduce or minimize the generation of wastes at source



Re-use or recycle wastes whenever possible



Send wastes for reuse, reutilization, co-processing



Render wastes innocuous before disposal



Dispose wastes only at approved facilities – JPPHB

WASTE GENERATOR

*Reg 8 Responsibility of
waste generator*



Provide inventory of scheduled wastes generated



Provide information of each category of wastes to be delivered to the contractor



Give the information to contractor upon delivery of waste to him



Complete Part 1 of the Consignment Note for the transportation of wastes out from premise - Eswiss

WASTE GENERATOR

*Reg 8 Responsibility of
waste generator*



Store wastes in appropriate containers



Store waste containers in a designated storage area



Mark containers with proper labels



Ensure that all his employess in involved in handling wastes attend training programmes



Establish an emergency response procedures in order to contain spillage/accidental discharge




Provide technical expertise and supporting assistance in any clean-up operation

Eswiss

**Managed by
JPPHB for UM
Scheduled
Waste**

JABATAN ALAM SEKITAR (JAS) [MY] | <https://eswis.doe.gov.my>

Home | [DOE Portal](#) | [Support List](#) | [Waste List](#) | [Facility List](#) | [FAQ](#) | [Inquiry](#)


eSWIS
Electronic Scheduled Waste Information System


Username

Password [Forgot?](#)



[Sign In](#)


[Register](#)

[Getting Started](#)



Welcome to Electronic Scheduled Waste Information System

  **Jabatan Alam Sekitar, Malaysia**
Kementerian Sumber Asli Dan Alam Sekitar
Ares 3, Podium 3, Wisma Sumber Asli, No.25, Persiaran Perdana, Presint 4, 62574 W.P. PUTRAJAYA
C. 03-8971 0000 / 0071 0000 F. 03-8971 0700



UMPORTAL-PTJ INFO-JPPHB-PENTADBIRAN

Dashboard > PTj Info

PTj Info

- Dashboard
- Applications
- Research
- PTj Info
- ICT Info
- Administrator
- Management
- IFIS
- Utilities

BSM

Bendahari

Bahagian Pentadbiran & Governan

Kad Kampus

Pejabat Keselamatan dan Kesihatan (OSH)

CITrA

Pej Naib Canselor

JPPHB

KIK

Pekeliling

Pusat Perancangan & Strategi Global

Perlembagaan, Akta & Statute

Fakulti Kejuruteraan

Perpustakaan

Pejabat Komunikasi Korporat (CCO)

Unit Integriti

JPPHB

10 records per page

Carian:

Bil	Tajuk	Tarikh
1	Bahagian Pengurusan Harta	10/10/2019
2	Bahagian Pentadbiran	11/09/2019
3	Bahagian Perancangan dan Senibina	29/08/2019
4	Garis Panduan Bahagian Kejuruteraan Mekanikal	13/11/2015
5	Garis Panduan Bahagian Pembangunan Projek	16/12/2009
6	Garis Panduan Hidupan Liar & Haiwan Perosak UM	23/07/2013
7	Garis Panduan Pengurusan Kenderaan UM	18/08/2017
8	Garis Panduan Unit Bangunan Infrastruktur	16/12/2009
9	Polisi Ruang Universiti Malaya	22/12/2009
10	Senarai Semak Pembangunan Fizikal Universiti Malaya (UM Development Checklist)	24/05/2018

Papar 1 hingga 10 bagi 11 rekod

← Prev 1 2 Next →

Second schedule



PENGURUSAN BUANGAN TERJADUAL

Label buangan terjadual (Scheduled wastes label)

- 1.First Schedule - Scheduled wastes code
- 2.Scheduled wastes label rev_2

Pemberitahuan buangan terjadual (Notification of scheduled wastes)

- 1.Second Schedule rev_2
- 2.Second Schedule 2 example rev_2

Inventori Buangan Terjadual (Inventory of scheduled wastes)

- 1.Fifth Schedule rev_2
- 2.Fifth Schedule 5 example rev_2

Guidelines

- 1.Guidelines on the handling and the management of clinical waste in Malaysia

	JABATAN PEMBANGUNAN DAN PENYELENGGARAAN & HARTA BENDA, UNIVERSITI MALAYA	
	NO. BOR : JPPHB/SISA/JADUAL/no.1	
	NO. REVISI : 02	
	MUKASURAT : 1 DARI PADA 1	
PEMBERITAHUAN BUANGAN TERJADUAL NOTIFICATION OF SCHEDULED WASTE		TARIKH EFEKTIF: SEPTEMBER 2019
JADUAL KEDUA (Peraturan 3) AKTA KUALITI ALAM SEKELILING 1974		

1. PENGENALAN/IDENTIFICATION

Nama/Name : Dr. Alchemist Jabatan/Department : Dept. Of Chemistry
Jawatan/Position: Research officer No. Tel/Tel No : 019-123456 / 03-79671234
Lokasi/Location : Chemical Analytical Laboratory Emel/Email : alchemist@um.edu.my

2. DATA PENGELUARAN/PRODUCTION DATA

Senarai bahan mentah/kimia dan kuantiti yang digunakan setiap bulan*
List of raw material/chemical and quantities used per month*

Bahan-bahan Mentah/Kimia Raw material/Chemicals	Kuantiti (Tan Metrik) Quantity (Metric Tonnes)
Hydrochloric acid	0.01
MEK	0.01
Dichloromethane	0.01
Engine oil	0.03

3. DATA BUANGAN/WASTE DATA

Buangan terjadual yang dikeluarkan setiap bulan**/Scheduled waste generated per month**

Kod Kategori Buangan Waste Category Code	Punca Buangan ¹ Waste Source	Nama Buangan Name of waste	Komponen Buangan ² Waste Components ³	Kuantiti (Tan Metrik/Bulan) ³ Quantity (Metric Tonnes/Month) ³
SW430	Housekeeping	Expired chemical	Hydrauchloric acid	0.002
SW322	Dewaxing	Spent non-halogenated solvent	MEK	0.001
SW323	Coating process	Spent halogenated solvent	Dichloromethane	0.002
SW305	Maintenance work	Spent engine oil	Hydrocarbon	0.003

Nota/Note: ¹ Unit Operasi dalam setiap proses/loji/makmal/pusat/Unit Operation in the process/plant/lab/center

² Namakan elemen-elemen, unsur, unsur, sebatian atau bahan/Name the elements, compounds or materials

³ Panduan untuk pertukaran (hanya data dalam tan metrik/bulan sahaja boleh diterima)/Guide conversion (only data in metric tonnes/month is acceptable)

** Anggaran/Estimation

Saya mengaku bahawa maklumat yang diberikan adalah benar dan betul sepanjang pengetahuan saya.
I certify that the information provided is true and correct to the best of my knowledge.

Alchemist

Tandatangan Pegawai Pelapor***/
Signature of Reporting Officer***

Nama/Name : Mr. Alchemist
Jawatan/Designation : Research officer
Tarikh/Date : ...01/09/2019.....

Note :*** Pengeluar Sisa/Staf Makmal/
Pensyarah/Penyelidik/Koordinator sisa
Waste generator/Lab Staff/ Lecturer/Researcher/
Waste Coordinator

FIFTH SCHEDULE



PENGURUSAN BUANGAN TERJADUAL

Label buangan terjadual (Scheduled wastes label)

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1. Second Schedule rev_2
2. Second Schedule 2 example rev_2


Inventori Buangan Terjadual (Inventory of scheduled wastes)

1. Fifth Schedule rev_2
2. Fifth Schedule 5 example rev_2

Guidelines

1. Guidelines on the handling and the management of clinical waste in Malaysia



	JABATAN PEMBANGUNAN DAN PENYELENGGARAAN & HARTA BENDA, UNIVERSITI MALAYA	
	INVENTORI BUANGAN TERJADUAL SCHEDULED WASTES INVENTORY	
	JADUAL KELIMA (Peraturan 11) AKTA KUALITI ALAM SEKELILING 1974	
	NO. BOR : JPPHB/SISA/JADUAL /no.2	NO. REVISI : 02
		MUKASURAT : 1 DARIPADA 1
		TARIKH EFEKTIF: SEPTEMBER 2019

Pjt / Faculty : Faculty of Science
 Nama / Name : Dr. Alchemist
 Jawatan / Designation : Research officer
 No. Tel / Handphone : 019-123456
 Bilik / Makmal (Room / Lab) : Chemical Analytical Laboratory

Jabatan / Unit (Dept / Unit) : Dept. of Chemistry
 No. Tel / Phone no. : 03-79671234
 Emel / Email : alchemist@um.edu.my

**SW109 SW206 SW301 SW305 SW306 SW307 SW315
 SW319 SW320 SW322 SW323 SW402 SW403 SW404
 SW408 SW409 SW416 SW421 SW430 OTHERS**

*TARIKH Date	KOD KATEGORI BUANGAN Waste Category Code	KUANTITI Quantity		PUNCA AKTIVITI Source Activity	TARIKH HANTAR KE STOR PTJ ^b Date sent to PTJ's store	TINDAKAN KOORDINATOR SISA For waste coordinator action	
		BOTOL / BEKAS / UNIT Bottle / Container / Unit	TAN METRIK Metric Tonnes			TARIKH PENERIMAAN, T/T & COP Date Received, Sign & Stamp	TARIKH DIANGKUT ^c Date of transported
01/09/2019	SW430	2 bottles	0.002	Housekeeping	20/09/2019	20/09/2019	24/09/2019
02/09/2019	SW322	1 carboy	0.001	Dewaxing	20/09/2019	20/09/2019	24/09/2019
03/09/2019	SW323	2 carboys	0.002	Coating process	20/09/2019	20/09/2019	24/09/2019
04/09/2019	SW305	3 carboys	0.003	Maintenance work	20/09/2019	20/09/2019	24/09/2019

Nota / Note :

^a Tarikh bila buangan terjadual dikeluarkan buat kali pertama
Date when scheduled wastes are first generated

^b Stor PTJ – stor sementara di makmal atau Jabatan yang berdaftar di Pjt
PTJ's store – registered temporary storage at laboratory or department

^c Tarikh buangan terjadual diangkut dari stor PTJ
Date of scheduled wastes transported outside PTJ's store

Saya mengaku bahawa maklumat yang diberikan adalah benar dan betul sepanjang pengetahuan saya.
I certify that the information provided is true and correct to the best of my knowledge

Alchemist

Tandatangan pengeluar sisa / Staf makmal / Pensyarah / Penyelidik / koordinator sisa
Signature of waste generator / Lab Staff / Lecturer / Researcher / Waste Coordinator

Nama / Name : Dr. Alchemist
 Jawatan / Designation : Research officer
 Tarikh / Date : 20/09/2019

Scheduled wastes labelling



PENGURUSAN BUANGAN TERJADUAL

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Guidelines


1. Guidelines on the handling and the management of clinical waste in Malaysia



 (NAMA PTJ)	
 BAHAN TOKSIK	 CECAIR MUDAH TERBAKAR
KOD SISA : SW322 <small>WASTE CODE</small>	
PENERANGAN SISA : BUANGAN PELARUT ORGANIK BUKAN TERHALOGEN <small>WASTE DESCRIPTION</small> : WASTE OF NON-HALOGENATED ORGANIC SOLVENTS	
TARIKH DIHASILKAN : 29/03/2019 <small>DATE GENERATED</small>	TARIKH DILUPUSKAN : 30 / 03 / 2019 <small>DATE DISPOSED (KE STOR SISA PTJ)</small>
NAMA PENGELUAR SISA : PROF. ABC <small>NAME OF WASTE GENERATOR (HANYA STAF TETAP SAHAJA)</small>	
BILIK/MAKMAL : BILIK ANALISIS / MAKMAL KIMIA <small>ROOM/LABORATORY</small>	
JABATAN/UNIT : JABATAN KIMIA <small>DEPARTMENT/UNIT</small>	
NO. TEL. (PEJABAT/BIMBIT) : 03-79679999 / 012-1234567 <small>TELEPHONE NUMBER</small>	


LIST OF SCHEDULED WASTE LABEL IN UM

BIL	KOD SW	PENERANGAN
1	SW322	Buangan pelarut organik bukan terhalogen
2	SW323	Buangan pelarut organik terhalogen
3	SW301	Asid organik terpakai dengan ph < 2
4	SW402	Alkali terpakai dengan ph > 11.5
5	SW430	Bahan kimia makmal yang usang
6	SW416	Enap cemar cat
7	SW421	Campuran Buangan Terjadual
8	SW409	Bekas, beg atau kelengkapan yang dilupuskan yang dicemari dengan bahan kimia, racun mahkluk perosak, minyak mineral atau buangan terjadual
9	SW408	Tanah tercemar daripada pembersihan tumpahan bahan kimia
10	SW404	Buangan patogenik, buangan klinikal atau bahan yang dikuarantinkan
11	SW403	Dadah terbuang mengandungi bahan psikotrofik, bertoksik, berbahaya, karsinogenik, mutagenik atau teratogenik.
12	SW206	Asid tidak organik terpakai
13	SW320	Buangan mengandungi formaldehid
14	SW109	Buangan yang mengandungi raksa atau sebatianannya
15	SW319	Buangan fenol termasuk klorofenol dalam bentuk cecair atau enap cemar
16	SW305	Minyak pelincir/enjin terpakai
17	SW307	Emulsi minyak mineral- air terpakai
18	SW315	Tar atau sisa bertar
19	SW306	Minyak hidraulik terpakai
20	SW422	campuran buangan terjadual dan buangan tidak terjadual
21	SW410	kain buruk, plastik, kertas dicemari buangan terjadual
22	SW102	Buangan bateri asid plumbum




UNIVERSITI MALAYA

(NAMA PTJ)



BAHAN TOKSIK



CECAIR MUDAH TERBAKAR

KOD SISA WASTE CODE : SW322

PENERANGAN SISA WASTE DESCRIPTION : BUANGAN PELARUT ORGANIK BUKAN TERHALOGEN WASTE OF NON-HALOGENATED ORGANIC SOLVENTS

TARIKH DIHASILKAN DATE GENERATED : 29/03/2019

TARIKH DILUPUSKAN DATE DISPOSED : 30 / 03 / 2019 (KE STOR SISA PTJ)

NAMA PENGELUAR SISA NAME OF WASTE GENERATOR : PROF. ABC (HANYA STAF TETAP SAHAJA)

BILIK/MAKMAL ROOM/LABORATORY : BILIK ANALISIS / MAKMAL KIMIA

JABATAN/UNIT DEPARTMENT/UNIT : JABATAN KIMIA

NO. TEL. (PEJABAT/BIMBIT) TELEPHONE NUMBER : 03-79679999 / 012-1234567

SCHEDULED
WASTE
CHARACTERISTIC

IGNITABLE



CORROSIVE



TOXIC



REACTIVE – INFECTIOUS

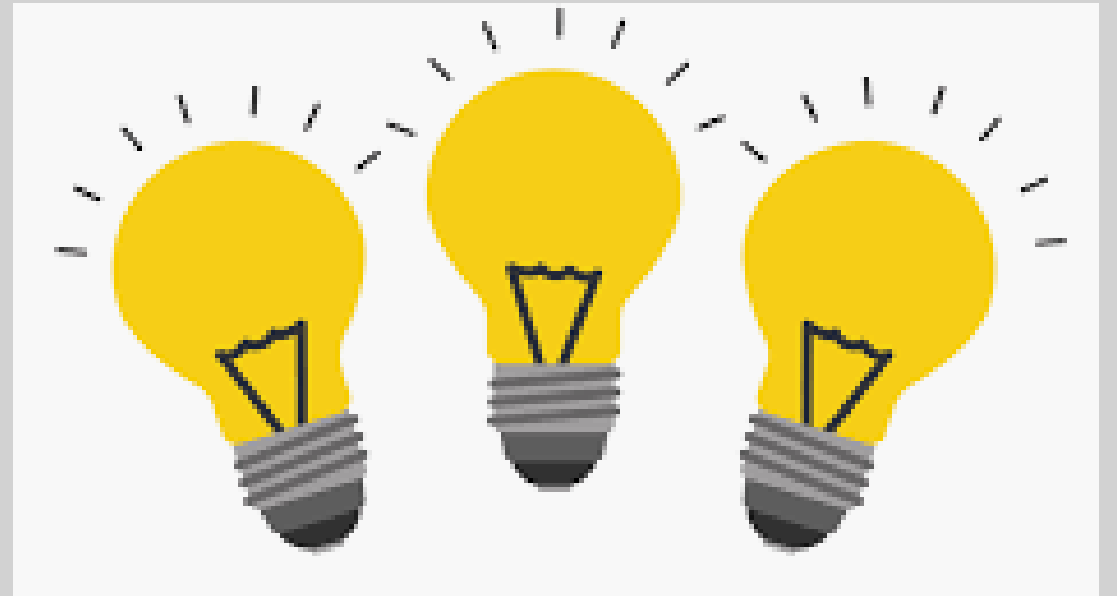


SCHEDULED
WASTE
CHARACTERISTIC

CHARACTERISTIC	DEFINATION	SW CODE
IGNITABILITY	<ul style="list-style-type: none"> Liquid with flash point < 60degree celcius or non-liquid with can cause fire through friction, absorption of moisture or spontaneous chemical change An oxidizer 	SW322 SW416 SW417
CORROSIVE	<ul style="list-style-type: none"> Ph < or equal 2 > Or equal 11.5 	SW206
TOXIC	> Specified concentration of metals and organic compound listed by reference in regulations	ALL SW
REACTIVE	<ul style="list-style-type: none"> Readily explode when undergo violent reactions React to release toxic gases or fumes 	SW206
INFECTIOUS	Ability to spread diseases or illnesses through bacteria, virus, fungus or other microorganism	SW404

ACTIVITY 1 – CLASSIFICATION OF SW

1. Contaminated container –
HCL, H₂SO₄, Solvents
2. Contaminated rag from
cleaning process of
laboratory
3. Contaminated sand -
chemical spill, hydraulic oil,
halogenated solvent



STORAGE OF SCHEDULED WASTE

At laboratory



SCHEDULED WASTE CONTAINERS/STORAGE

- Compatible with scheduled wastes to be stored in term of chemical
- Appropriate containers in term of size and material type
- Durable
- Able to prevent spillage or leakage of the scheduled wastes into the environment

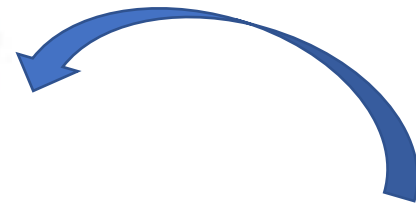


CONTAINERS TYPE

CONTAINERS	Type of waste	
IBC	liquid / solvent/oil	
Corrugated Box/Carton	dry waste	
Jumbo Bag	dust/slag/e-waste/dry waste	
Jerrycan/carboy	liquid/solvent	
Steel drum	Inorganic/organic liquid waste	
Plastic drum	acid waste/e-waste	
Clinical bin	infectious waste	

Corrugated/carton box

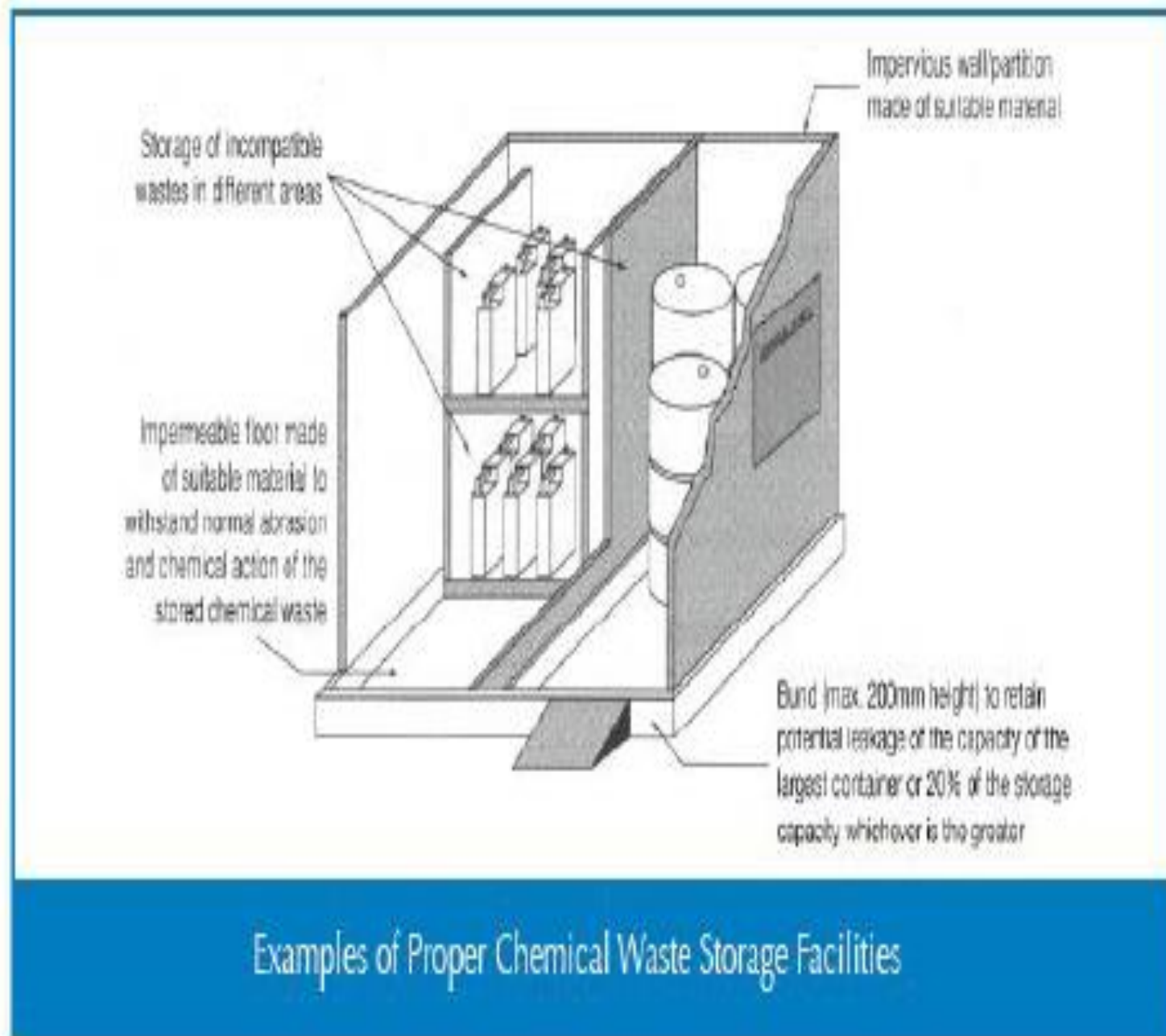
- Dry solids waste with no free-flow liquid generated in small quantity
- E-waste, contaminated rags
- Expired drugs, cosmetic
- No tear or hole



COMPATIBILITY (FOURTH SCHEDULE)

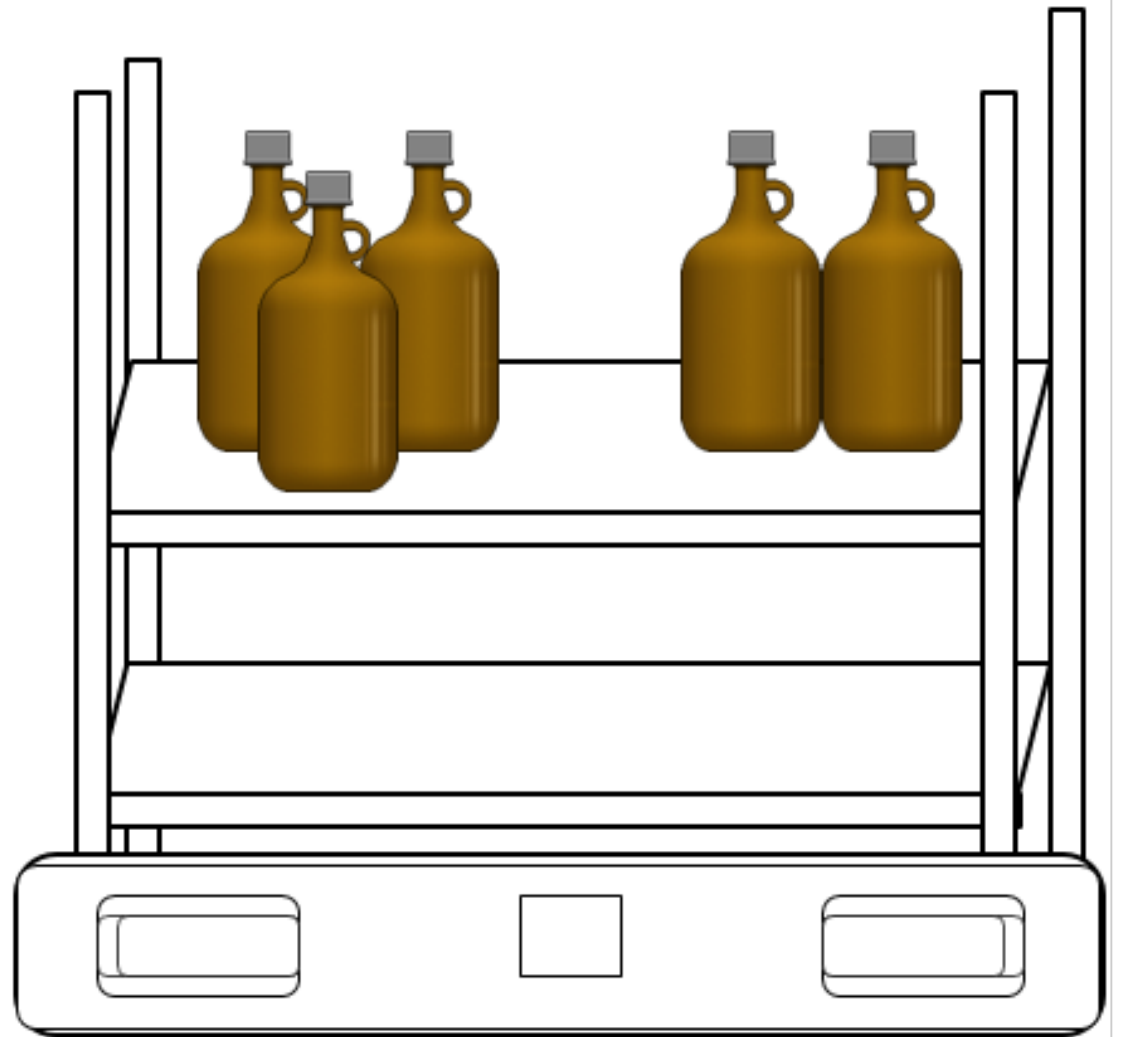
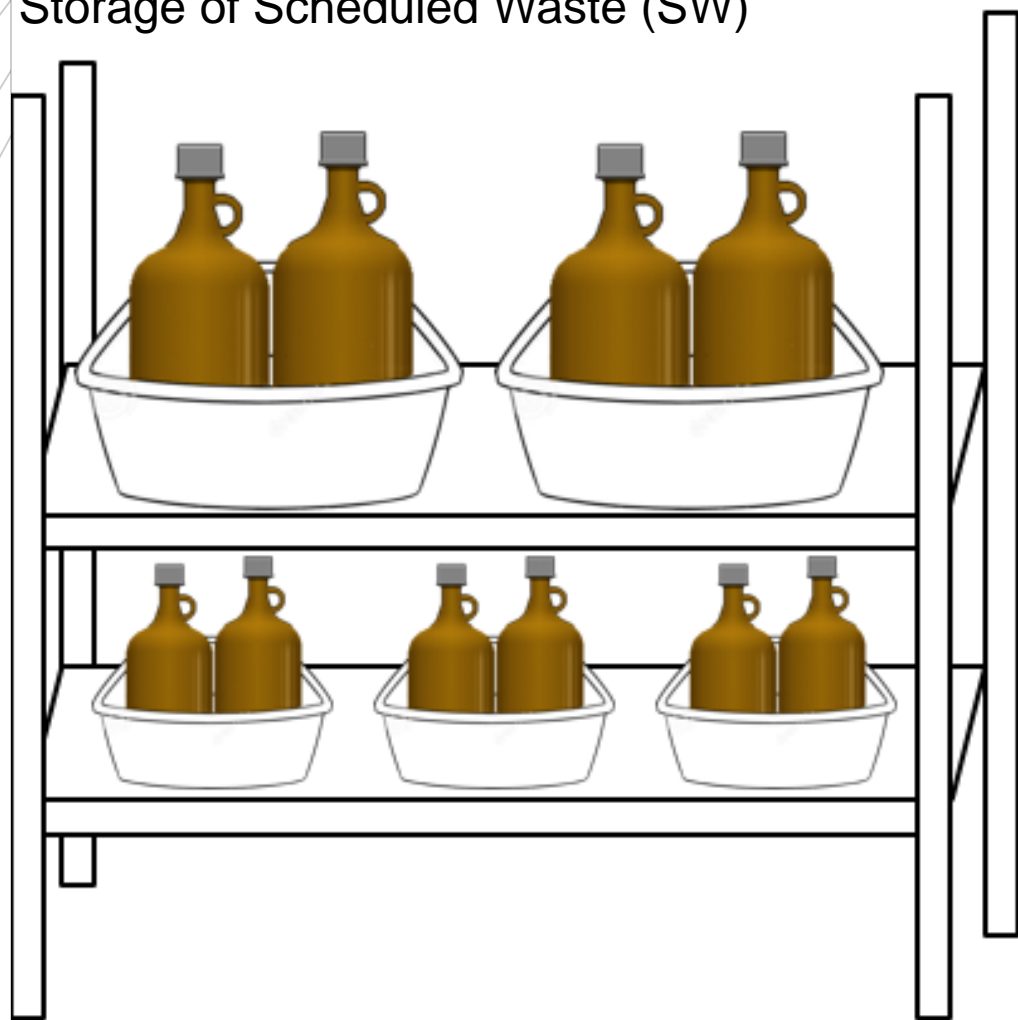
SW CODE	GROUP	NOT COMPATIBLE
SW206	1-B (SPENT ACID)	1-A, 3-A, 4-A, 5-A, 6-A, 7-A
SW322	2-B (SOLVENTS)	2-A, 7-A
SW323	5-A (HALOGENATED HYDROCARBONS)	5-B, 7-A
SW327	4-A (ALCOHOLS)	4-B, 5-B, 7-A
SW416	2-B (SOLVENTS)	2-A, 7-A
SW417	2-B (SOLVENTS)	2-A, 7-A
SW103	3-A (METALS AND METAL HYDRIDES)	3-B, 4-A, 5-A

PROPER SEGREGATION OF SCHEDULED WASTE



Penyimpanan Buangan Terjadual (BT)

Storage of Scheduled Waste (SW)





Gambarajah oleh En Fateh Ngaliman









FAKULTI PERGIAN

CONTOH

Activity 2: Labelling of SW

		(NAMA PTJ)
 <p>BAHAN TOKSIK</p>		
KOD SISA WASTE CODE	:	SW
PENERANGAN SISA WASTE DESCRIPTION	:	
TARIKH DIHASILKAN DATE GENERATED	:	TARIKH DILUPUSKAN : DATE DISPOSED (KE STOR SISA PTJ)
NAMA PENGELUAR SISA NAME OF WASTE GENERATOR	:	(HANYA STAF TETAP SAHAJA)
BILIK/MAKMAL ROOM/LABORATORY	:	
JABATAN/UNIT DEPARTMENT/UNIT	:	
NO. TEL. (PEJABAT/BIMBIT) TELEPHONE NUMBER	:	

 UNIVERSITI MALAYA (NAMA PTJ)	
 BAHAN TOKSIK	 CECAIR MUDAH TERBAKAR
KOD SISA / WASTE CODE : SW322	
PENERANGAN SISA / WASTE DESCRIPTION : BUANGAN PELARUT ORGANIK BUKAN TERHALOGEN / WASTE OF NON-HALOGENATED ORGANIC SOLVENTS	
TARIKH DIHASILKAN / DATE GENERATED : 29/03/2019	TARIKH DILUPUSKAN / DATE DISPOSED : 30 / 03 / 2019 <small>(KE STOR BISA PTJ)</small>
NAMA PENGELUAR SISA / NAME OF WASTE GENERATOR : PROF. ABC <small>(HANYA STAF TETAP SAHAJA)</small>	
BILIK/MAKMAL / ROOM/LABORATORY : BILIK ANALISIS / MAKMAL KIMIA	
JABATAN/UNIT / DEPARTMENT/UNIT : JABATAN KIMIA	
NO. TEL. (PEJABAT/BIMBIT) / TELEPHONE NUMBER : 03-79679999 / 012-1234567	

 UNIVERSITI MALAYA (NAMA PTJ)	
 BAHAN TOKSIK	 CECAIR MUDAH TERBAKAR
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BILIK/MAKMAL / ROOM/LABORATORY : BILIK ANALISIS / MAKMAL KIMIA	
JABATAN/UNIT / DEPARTMENT/UNIT : JABATAN KIMIA	
NO. TEL. (PEJABAT/BIMBIT) / TELEPHONE NUMBER : 03-79679999 / 012-1234567	

Shall be liable to a fine not exceeding **RM10,000.00** **OR IMPRISONMENT** not exceeding **2** years **OR** to both



(4) Any person who contravenes this section shall be guilty of an offence and shall be liable to **IMPRISONMENT** for a period not exceeding **5** years **AND** a fine not exceeding **RM500,000.00**

EQA, 1974 : Section 34B

THANK
YOU

