MODULE 2: SCHEDULED WASTES MANAGEMENT – REGULATIONS 2 - 6
Legislations governing scheduled wastes in Malaysia
* Environmental Quality Act,, 1974
* Regulations 2 – 6, Environmental Quality (Scheduled Wastes) Regulations 2005

Scheduled wastes management in Malaysia
Interpretation, Notification of the generation of scheduled wastes, Disposal of scheduled wastes, Treatment of scheduled wastes, Recovery of material or product from scheduled wastes
LEGISLATIONS GOVERNING SCHEDULED WASTES IN MALAYSIA
Environmental Quality Act, 1974
An Act relating to the prevention, abatement, control of pollution and enhancement of the environment

Came into force: 1975

Regulations and Order
ENVIRONMENTAL QUALITY ACT, 1974 (ACT 127)

**Section 16:**
- Licencing conditions

**Section 18:**
- Prescribed premises to be licensed

**Section 19:**
- Written Permission to construct Prescribed Premises

**Section 34B:**
- Prohibition against placing, deposit, etc., of scheduled wastes
ENVIRONMENTAL QUALITY ACT, 1974 (ACT 127)

continued…

Section 38:  
- Power to stop, board, search, etc.

Section 46A:  
- Power to seize vehicle or ship

Section 46B:  
- Power of forfeiture and disposal

Section 48:  
- Power to detain and sell vehicle or ships

Section 49A 1(b):  
- Competent Person
SECTION 34B. PROHIBITION AGAINST PLACING, DEPOSIT, ETC., OF SCHEDULED WASTES

34B. (1) No person shall—

(a) place, deposit or dispose of, or cause or permit to place, deposit or dispose of, except at prescribed premises only, any scheduled wastes on land or into Malaysian waters;

(b) receive or send, or cause or permit to be received or sent any scheduled wastes in or out of Malaysia; or

(b) transit or cause or permit the transit of scheduled wastes, without any prior written approval of the Director General.
SECTION 34B. PROHIBITION AGAINST PLACING, DEPOSIT, ETC., OF SCHEDULED WASTES

(2) The Director General may grant the written approval either subject to conditions or unconditionally.

(4) For the purpose of this Act, any act of receiving or sending, or transit of any scheduled wastes with an approval obtained through falsification, misrepresentation or fraud or which does not conform in a material way with the relevant documents in such form as may be prescribed, shall be an offence.
SECTION 34B. PROHIBITION AGAINST PLACING, DEPOSIT, ETC., OF SCHEDULED WASTES

(4) Any person who contravenes this section shall be guilty of an offence and shall be liable to imprisonment for a period not exceeding five years and a fine not exceeding five hundred thousand ringgit.
Section 43:

Offences by bodies of persons and by servants and agents

A director, manager, or other similar officer or a partner of the company, firm, society or other body of persons or was purporting to act in such capacity shall be deemed to be guilty of that offence under the Environmental Quality Act, 1974.
Section 49: “competent person”

49A. (1) An owner or occupier of a premise shall employ a person who has been certified by the Director General as a competent person to conduct all or any of the following activities:

(a) the operation of a control equipment;
(b) the management of scheduled wastes;
(c) the conduct of studies;
(d) the preparation and submission of reports, plans, proposals, engineering drawings or other documents relating to environmental matters.

(2) The reports, plans, proposals, engineering drawings or other documents relating to environmental matters referred to in paragraph (1)(d) shall be prepared and submitted by the competent person to the Director General.
EiMAS has developed competency training programmes for the industries in the management of scheduled wastes, to fulfil the requirement of **Section 49(A)1** for a premise/owner to engage “competent person”.

**Course For Certified Environmental Professional In Scheduled Waste Management (CePSWaM).**
COMPETENCY TRAINING PROGRAM FOR INDUSTRIES IN THE MANAGEMENT OF SCHEDULED WASTES

- Kindly refer to EiMAS’s website at: http://www.doe.gov.my/eimas for information on CePSWaM courses.

- Contact EiMAS at: 03-89261500
Regulations or Order under the Environmental Quality Act, 1974, pertaining to Scheduled Wastes
Environmental Quality (Scheduled Wastes) Regulations, 2005.


Environmental Quality (Treatment and Disposal Facilities)(Scheduled Wastes) Regulations, 1989 (Amendment) 2006

Environmental Quality (Prescribed Conveyance) (Scheduled Wastes) Order 2005.


List of Prescribed Premises for Scheduled Wastes.

Responsibility of Prescribed Premises, Written Permission (KB), License, fee, penalty

List of Prescribed Conveyance transportation of scheduled wastes.

List of Prescribed Activities for Scheduled Wastes.

Scheduled Wastes management, responsibility of waste generator, penalty
Environmental Quality (Scheduled Wastes) Regulations 2005

- Came into force on 15 August 2005
- Replacing previous Environmental Quality (Scheduled Wastes) 1989 Regulations
OBJECTIVES OF ENVIRONMENTAL QUALITY (SCHEDULED WASTES) REGULATIONS 2005

• To ensure proper management of scheduled wastes

• To prevent pollution of scheduled wastes into the environment.

• To monitor the movement of scheduled wastes and to ensure that scheduled wastes are handled at licensed facility.
Regulation 1. Citation and commencement
Regulations 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 9. Storage of scheduled wastes
Regulation 10. Labelling of scheduled wastes
Regulation 11. Waste generator shall keep an inventory of scheduled wastes
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
Regulation 14. Spill or accidental discharge
Regulation 15. Conduct of training
Regulation 16. Compounding of offences
Regulation 2
Interpretation

Environmental Quality (Scheduled Wastes) Regulations 2005
"scheduled wastes" means any waste falling within the categories of waste listed in the First Schedule;
CHARACTERISTICS OF SCHEDULED WASTES

ignitable  corrosive  toxic  reactive  infectious
First Schedule: 5 groups, 77 schedules wastes codes

- **SW1**
  - Metal and metal-bearing wastes
  - 10 codes

- **SW2**
  - Wastes containing principally inorganic constituents which may contain metals and organic materials
  - 7 codes

- **SW3**
  - Wastes containing principally organic constituents which may contain metals and inorganic materials
  - 27 codes

- **SW4**
  - Wastes which may contain either inorganic or organic constituents
  - 32 codes

- **SW5**
  - Other wastes
  - 1 code
TYPES OF SCHEDULED WASTES IN SW1 GROUP (Metal and metal-bearing wastes)

- **Code**: SW 102
- **Description**: Waste of lead acid batteries in whole or crushed form
- **Example of Waste**: Spent lead acid battery component such as plastic casing, lead plate and electrolyte (acid)
- **Typical source**: Lead acid batteries from motor vehicles, etc.
• **Code:** SW104
• **Description:** Dust, slag, dross or ash containing aluminium, arsenic, mercury, lead, cadmium, chromium, nickel, copper, vanadium, beryllium, antimony, tellurium, thallium or selenium excluding slag from iron and steel factory
• **Example of Waste:** Aluminium dross
• **Typical source:** Aluminium smelting, etc
TYPES OF SCHEDULED WASTES IN SW1 GROUP (Metal and metal-bearing wastes)

- **Code**: SW106
- **Description**: Residues from recovery of acid pickling liquor
- **Example of Waste**: Iron salts (ferrous sulfate or ferrous chloride)
- **Typical source**: Recovery of acid pickling liquor
TYPES OF SCHEDULED WASTES IN SW1 GROUP (Metal and metal-bearing wastes)

- **Code**: SW 107
- **Description**: Slags from copper processing for further processing or refining containing arsenic, lead or cadmium
- **Example of Waste**: Slag (impurities)
- **Typical source**: Copper smelting process
TYPES OF SCHEDULED WASTES IN GROUP SW2 (Wastes containing principally inorganic constituents which may contain metals and organic materials)

- **Code**: SW201
- **Description**: Asbestos wastes in sludges, dust or fibre forms
- **Example of Waste**: Spent asbestos pipe insulation
- **Typical source**: Piping system
**Code:** SW204

**Description:** Sludges containing one or several metals including chromium, copper, nickel, zinc, lead, cadmium, aluminium, tin, vanadium and beryllium

**Example of Waste:**
Wastewater treatment sludge

**Typical source:** Sludge dewatering and pressing process
TYPES OF SCHEDULED WASTES IN GROUP SW2 (Wastes containing principally inorganic constituents which may contain metals and organic materials)

- **Code**: SW205
- **Description**: Waste gypsum arising from chemical industry or power plant
- **Example of Waste**: Synthetic gypsum
- **Typical source**: Coal fired power plant
Types of Scheduled Wastes in Group SW2 (Wastes containing principally inorganic constituents which may contain metals and organic materials)

- **Code**: SW206
- **Description**: Spent inorganic acids
- **Example of Waste**: Spent sulphuric acid
- **Typical source**: Acid pickling process
TYPES OF SCHEDULED WASTES IN GROUP SW3 (Wastes containing principally organic constituents which may contain metals and inorganic materials)

- **Code**: SW301
- **Description**: Spent organic acids with pH less or equal to 2 which are corrosive or hazardous
- **Example of Waste**: Spent acetic acid
- **Typical source**: Production of vinyl acetate monomer
TYPES OF SCHEDULED WASTES IN GROUP SW3 (Wastes containing principally organic constituents which may contain metals and inorganic materials)

- **Code:** SW303
- **Description:** Adhesive or glue waste containing organic solvents excluding solid polymeric materials
- **Example of Waste:** Spent solvent based glue/adhesive
- **Typical source:** Assembly activities such as furniture assembly
TYPES OF SCHEDULED WASTES IN GROUP SW3 (Wastes containing principally organic constituents which may contain metals and inorganic materials)

- **Code**: SW305
- **Description**: Spent lubricating oil
- **Example of Waste**: Spent lubricating oil
- **Typical source**: Motor vehicles and compressor machines
TYPES OF SCHEDULED WASTES IN GROUP SW3 (Wastes containing principally organic constituents which may contain metals and inorganic materials)

- **Code**: SW306
- **Description**: Spent hydraulic oil
- **Example of Waste**: Spent hydraulic oil
- **Typical source**: Hydraulic equipment and machines
TYPES OF SCHEDULED WASTES IN GROUP SW3 (Wastes containing principally organic constituents which may contain metals and inorganic materials)

- **Code**: SW309
- **Description**: Oil-water mixture such as ballast water
- **Example of Waste**: Ballast water
- **Typical source**: Ballast tank of ship
TYPES OF SCHEDULED WASTES IN GROUP SW3 (Wastes containing principally organic constituents which may contain metals and inorganic materials)

- **Code**: SW311
- **Description**: Waste of oil or oily sludge
- **Example of Waste**: Oily sludge
- **Typical source**: Maintenance or cleaning activities of oily wastes
TYPES OF SCHEDULED WASTES IN GROUP SW3 (Wastes containing principally organic constituents which may contain metals and inorganic materials)

- **Code:** SW325
- **Description:** Uncured resin waste containing organic solvents or heavy metals including epoxy resin and phenolic resin
- **Example of Waste:** Off-specification or defect resin materials
- **Typical source:** Printed circuit board assembly
TYPES OF SCHEDULED WASTES IN GROUP SW4
(Wastes which may contain either inorganic or organic constituents)

- **Code**: SW412
- **Description**: Sludges containing cyanide
- **Example of Waste**: Cyanide plating sludge
- **Typical source**: Metal plating
TYPES OF SCHEDULED WASTES IN GROUP SW4 (Wastes which may contain either inorganic or organic constituents)

- **Code:** SW403
- **Description:** Discarded drugs containing psychotropic substances or containing substances that are toxic, harmful, carcinogenic, mutagenic or teratogenic
- **Example of Waste:** Expired antidepressants, stimulants and painkillers
- **Typical source:** Pharmacies, hospitals and clinics
TYPES OF SCHEDULED WASTES IN GROUP SW4
(Wastes which may contain either inorganic or organic constituents)

- **Code**: SW406
- **Description**: Clinker, slag and ashes from scheduled wastes incinerator
- **Example of Waste**: Incinerator ashes
- **Typical source**: Scheduled waste incinerators
TYPES OF SCHEDULED WASTES IN GROUP SW4 (Wastes which may contain either inorganic or organic constituents)

- **Code**: SW409
- **Description**: Disposed containers, bags or equipment contaminated with chemicals, pesticides, mineral oil or scheduled wastes
- **Example of Waste**: Empty paint containers
- **Typical source**: Painting shop in vehicle manufacturing plants
TYPES OF SCHEDULED WASTES IN GROUP SW4
(Wastes which may contain either inorganic or organic constituents)

- **Code:** SW418
- **Description:** Discarded or off-specification inks, paints, pigments, lacquer, dye or varnish products containing organic solvent
- **Example of Waste:** Off-specification solvent based paints
- **Typical source:** Painting shop or paint manufacturing plants
TYPES OF SCHEDULED WASTES IN GROUP SW4 (Wastes which may contain either inorganic or organic constituents)

- **Code:** SW427
- **Description:** Mineral sludges including calcium hydroxide sludges, phosphating sludges, calcium sulphite sludges and carbonates sludges

**Example of Waste:** Calcium hydroxide wastes

**Typical source:** Production of acetylene gas from calcium carbide
TYPES OF SCHEDULED WASTES IN GROUP SW4
(Wastes which may contain either inorganic or organic constituents)

- **Code**: SW420
- **Description**: Leachate from scheduled waste landfill
- **Example of Waste**: Leachate
- **Typical source**: Secure landfill facilities
TYPES OF SCHEDULED WASTES IN GROUP SW4
(Wastes which may contain either inorganic or organic constituents)

- **Code**: SW430
- **Description**: Obsolete laboratory chemicals
- **Example of Waste**: Obsolete chemicals from laboratory
- **Typical source**: Chemical laboratories
Code: SW501
Description: Any residues from treatment or recovery of scheduled wastes
Example of Waste: Residues
Typical source: Treatment or recovery of scheduled wastes
"waste generator" means any person who generates scheduled wastes.
"contractor" means any person licensed by the Director General of Environmental Quality under subsection 18(1A) of the Act
"prescribed premises" means premises prescribed by the Environmental Quality (Prescribed Premises) (Scheduled Wastes Treatment and Disposal Facilities) Order 1989

Prescribed Premises

- Off-site recovery facility
- Incinerator
- Off-site treatment facility
- Off-site storage facility
- Secured landfill
Regulation 3
Notification of the
generation of
scheduled wastes

Environmental Quality
(Scheduled Wastes)
Regulations 2005
Regulation 3: Notification of the generation of scheduled wastes

1) Every waste generator shall, **within 30 days from the date of generation of scheduled wastes**, notify the Director General of the new categories and quantities of scheduled wastes which are generated.

2) The notification given under subregulation (1) **shall include the information** provided in the **Second Schedule**.

**Note:**

**NOTIFICATION OF THE GENERATION OF SCHEDULED WASTES**

*To be filled only one time for each scheduled waste code except if there is new generation of waste code or increase in production capacity of the existing waste code.*
Regulation 3: Notification of the generation of scheduled wastes

Notify the Director General of the new categories and quantities of scheduled wastes which are generated within **30 days** from the date of generation of scheduled wastes.

Notification to be made through DOE’s on-line system (**e-SWIS**).

Notification shall include the information provided in the Second Schedule.

E-SWIS (Electronic Scheduled Wastes Information System)
NOTIFICATION OF SCHEDULED WASTES
(Two copies to be completed)

File Reference No.: ........................................
Waste Generator Code: .........................................
State Code: ....................................................

For office use only

1. IDENTIFICATION
(i) Name and Address of Premise:

.................................................................................................................................
.................................................................................................................................
.................................................................................................................................
Tel. No.: .................... Fax No.: .................... Telex No.: ..................

(ii) Owner of Premise: ..........................................................................................
Designation: ........................................................................................................

2. PRODUCTION DATA
List of raw materials/chemicals and quantities used per month*

<table>
<thead>
<tr>
<th>Raw Material/Chemicals</th>
<th>Quantity (Metric Tonnes)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

Note:
* Use additional sheet if required

Second Schedule

3. WASTE DATA
Scheduled wastes generated per month**

<table>
<thead>
<tr>
<th>Waste Category Code</th>
<th>Waste Source1</th>
<th>Name of Waste</th>
<th>Waste Component2</th>
<th>Quantity (Metric Tonnes/Month)3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Note:
** Estimates

I certify that the information provided is true and correct to the best of my knowledge.

.................................................................
Signature of Reporting Officer ***

Name: ...............................................................
Designation: ....................................................
Date: ...................................................................

Note:
*** Reporting officer refers to the person handling scheduled wastes.
NOTIFICATION OF SCHEDULED WASTES
(Two copies to be completed)

1. IDENTIFICATION
   (i) Name and Address of Premise:
       ABC Sdn Bhd. No.1, Jalan 2, Kawasan Perindustrian 3, Selangor
   Tel. No.: .................. Fax No.: .................. Telex No.: ..................

(ii) Owner of Premise: .Mr XYZ

Designation: Managing Director

2. PRODUCTION DATA
   List of raw materials/chemicals and quantities used per month*

<table>
<thead>
<tr>
<th>Raw Material/Chemicals</th>
<th>Quantity (Metric Tonnes)</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

3. WASTE DATA
   Scheduled wastes generated per month**

<table>
<thead>
<tr>
<th>Waste Category Code</th>
<th>Waste Source1</th>
<th>Name of Waste</th>
<th>Waste Component2</th>
<th>Quantity (Metric Tonnes/Month)3</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW206</td>
<td>Acid pickling process</td>
<td>Spent inorganic acid</td>
<td>Acid</td>
<td>2 metric tonnes metrik/month</td>
</tr>
</tbody>
</table>

Note:
1 Unit Operation in the process/plant
Name the elements, compound or material
Guide to conversion (only data in metric tonnes/month is acceptable)
Use additional sheet if required
** Estimates

I certify that the information provided is true and correct to the best of my knowledge.

Signature of Reporting Officer ***

Name: ...........................................
Designation: ...........................................
Date: ............................................

Note:
*** Reporting officer refers to the person handling scheduled wastes.
Notification of the new generation of scheduled wastes through e-SWIS on-line system

Please visit: http://eswis.doe.gov.my
Accessing to e-SWIS

URL: https://eswis.doe.gov.my

Welcome to Electronic Scheduled Waste Information System

Fill in existing Username and Password Of eCN to access the system.
eSWIS for Generator
Notification

Step 1: Clicked on Menu  🕛 Notification
Notification listing

Step 2: Clicked on **New** button

Waste Generator is allows to create new notification, view drafted notification, and view submitted notification.
New Notification

Step 3: Fill in the required field.

Please note that the red asterisk * indicates that this field MUST BE KEYED-IN.
New Notification – Required field

Steps of create notification:

a) Fill in File Ref No (Optional).
b) Fill in Product Information (Raw Material / Chemicals) (Optional).
c) Fill in quantity of product in MT (Optional).
d) Click to add product information. (continue....)

![Notification Form]

- Notification No: Auto Generated
- File Ref No:
- Date: 14/11/2014
- DOE File No: AS:C91/110/606/03

![Production Information]

- Raw Material / Chemicals
- MT

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New Notification – Required field

(…..continue) Steps of create notification:
e) Select waste code by typing in the waste code or clicking the listed code.
g) Fill in quantity of waste material in MT.
h) Fill in Waste Name.
i) Fill in Waste Component (Optional).
j) Select Waste Type by clicking down arrow.
k) Select Package Type by clicking down arrow.
l) Click + to add waste information.

Please note that the red asterisk * indicates that this field MUST BE KEYED-IN.
New Notification – Save and Submit

Step : 4

Click  to save new entry as draft or
Click  to submit new entry.
Click  to cancel the entry and return to main listing.

Add waste material | Save or modify on product / waste material | Cancel the modification | Delete the selected product / waste material from the list | Saving draft of the new entry | Return to Main List and cancel entry
Step 1: Clicked on the selected notification record.
Cancel Submitted Notification

Step 2:
Click [Request Cancel] to cancel the Notification
Click [OK] to confirm the cancellation.

Add waste material | Save or modify on product/waste material | Cancel the modification | Delete the selected product/waste material from the list | Saving draft of the new entry | Return to Main List and cancel entry

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Regulation 4
Disposal of scheduled wastes

Environmental Quality (Scheduled Wastes) Regulations 2005
1) Scheduled wastes shall be disposed of at prescribed premises only.

2) Scheduled wastes shall, as far as is practicable, be rendered innocuous prior to disposal.
Regulation 4: Disposal of scheduled wastes

Scheduled waste is transported to off-site disposal facility (Prescribed premise)
Regulation 5
Treatment of scheduled wastes

Environmental Quality (Scheduled Wastes) Regulations 2005
Regulation 5: Treatment of scheduled wastes

1) Scheduled wastes shall be treated at prescribed premises or at on-site treatment facilities only.

2) Residuals from treatment of scheduled wastes shall be treated or disposed of at prescribed premises.
Regulation 5: Treatment of scheduled wastes

Scheduled waste is transported to off-site treatment facility (Prescribed premise)

… or treated at off-site facility (Prescribed Premise)

Prescribed facility (licenced by DOE) - Off=site treatment

Residues from on-site treatment is transported to off-site treatment facility

Residues

Scheduled wastes

Waste generator

Treated on-site…

On-site treatment
Regulation 6
Recovery of material or product from scheduled wastes

Environmental Quality (Scheduled Wastes) Regulations 2005
Regulation 6: Recovery of material or product from scheduled wastes

1) Recovery of material or product from scheduled wastes shall be done at prescribed premises or at on-site recovery facilities.

2) Residuals from recovery of material or product from scheduled wastes shall be treated or disposed of at prescribed premises.
Regulation 6: Recovery of material or product from scheduled wastes

Scheduled wastes are transported to off-site recovery facility

... or recovered at off-site recovery facility (Prescribed Premise)

Scheduled wastes

Residues from on-site recovery are transported to off-site recovery facility

Residue

On-site recovery of material or product from scheduled wastes

Recovered on-site...

Waste generator

Prescribed Premise (licensed by DOE) - Off-site recovery
T H A N K  Y O U

Protecting the Environment is Our Shared Responsibility

www.doe.gov.my