

SEVENTH SCHEDULED (Regulation 13) INFORMATION SW206 – SPENT INORGANIC ACIDS



A: **PROPERTIES**

1. Category

- ŚW206

2. Origin

3.

2.

- Laboratory experiment or testing
- Physical Properties of Waste
 - Flash Point
 - Boiling Point
 - Consistency in the room temperature
 - Vapors heavier than air
 - Solubility in water
 - Waste lighter/heavier than water
- 4. Risks
 - by inhalation
 - by oral intake
 - by dermal contact

B: HANDLING OF WASTE

- 1. Personal protection equipment
- 2. Procedures/Precautions in handling, packaging, transporting and storage
- 3. Appropriate label

with eyes

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4. Recommended method of disposal

Rubber gloves, safety goggles, and safety boots to prevent contact with the skin. Performed in open areas and well-ventilated areas.

Toxic, corrosive. Recycle or incineration.

C: PRECAUTION IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING PERSONAL INJURY

- In case of inhalation of fumes or oral intake
 - Symptoms of intoxication

In case of dermal contact or contact

Symptoms of intoxication

Guidelines for the physician

Appropriate first aid.

Guidelines for the physicians

- Appropriate first aid
- Take out for fresh air.

Dizziness, vomiting. Keep airways free. Call a physician immediately. Refer to National Poison Centre. For eye contact: rinse with plenty of water and seek medical help. For skin contact: take off immediately all contaminated clothing. Rinse skin with water/shower. Dizziness, vomiting. Wash with clean running water. Refer to National Poison Centre.

D: STEPS TO BE TAKEN IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING MATERIAL DAMAGE ARISING FROM -

 Spill on floor, soil, road, etc
 Spill into water
 Spill into water
 Fire
 Explosion
 Contain spill using spill kit materials. Block water way and contain spills materials. Use fire extinguisher foam, carbon dioxide (CO₂), dry Powder.
 Explosion

Waste Generator Address:	INSTITUT SAINS BIOLOGI, FAKULTI SAINS, UNIVERSITI MALAYA 50603 KUALA LUMPUR
Person in Charge:	PUAN NOR SHAHIDAH MUSTAPHA

-85 °C — 337 °C Liquid Yes

⁰C – non-flammable

- Mostly heavier Yes
- No Yes

Yes



SEVENTH SCHEDULED (Regulation 13) **INFORMATION** SW301 – SPENT ORGANIC ACID WITH PH LESS OR EQUAL TO 2 WHICH ARE **CORROSIVE OR HAZARDOUS**

Yes

Yes



PROPERTIES A:

- Category 1.
 - SW301
- 2. Origin
 - Laboratory experiment or testing
- Physical Properties of Waste 3.

·-	Flash Point	-40 °C - 40 °C
-	Boiling Point	20 °C - 100 °C
-	Consistency in the room	Liquid
	temperature	

- Vapors heavier than air
- Solubility in water
- Waste lighter/heavier than water Less heavy

4. Risks

-	by inhalation	Yes
-	by oral intake	No
-	by dermal contact	Yes

by dermal contact

B: HANDLING OF WASTE

- Personal protection equipment 1.
- 2. Procedures/Precautions in handling, packaging, transporting and storage
- 3. Appropriate label
- Recommended method of disposal 4.

Recycle or incineration.

C: PRECAUTION IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING PERSONAL INJURY

- 1. In case of inhalation of fumes or oral intake
 - Symptoms of intoxication
 - Appropriate first aid

 - Guidelines for the physicians
- In case of dermal contact or contact 2. with eyes
 - Symptoms of intoxication
 - Appropriate first aid.
 - Guidelines for the physician _

Take out for fresh air.

prevent contact with the skin.

Toxic, corrosive, flammable.

Dizziness, vomiting. Keep airways free. Call a physician immediately. Refer to National Poison Centre. For eye contact: rinse with plenty of water and seek medical help. For skin contact: take off immediately all contaminated clothing. Rinse skin with water/shower Dizziness, vomiting. Wash with clean running water. Refer to National Poison Centre.

Rubber gloves, safety goggles, and safety boots to

Performed in open areas or well-ventilated areas.

D: STEPS TO BE TAKEN IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING MATERIAL **DAMAGE ARISING FROM** -

- Spill on floor, soil, road, etc Contain spill using spill kit materials. 1. 2. Spill into water Block water way and contain spills materials. 3. Fire Use fire extinguisher foam, carbon dioxide (CO₂), dry Powder.
- 4. Explosion

Waste has no potential of self-explosion.

Waste Generator Address:	INSTITUT SAINS BIOLOGI, FAKULTI SAINS, UNIVERSITI MALAYA 50603 KUALA LUMPUR
Person in Charge:	PUAN NOR SHAHIDAH MUSTAPHA



SEVENTH SCHEDULED (Regulation 13) INFORMATION SW320 – WASTE CONTAINING FORMALDEHYDE



A: **PROPERTIES**

1. Category

- SW320

- 2. Origin
 - Laboratory experiment or testing
- 3. Physical Properties of Waste
 - Flash Point
 - Boiling Point
 - Consistency in the room temperature
 - Vapors heavier than air
 - Solubility in water
 - Waste lighter/heavier than water Less heavy
- 4. Risks
 - by inhalation
 - by oral intake
 - by dermal contact

B: HANDLING OF WASTE

- 1. Personal protection equipment
- 2. Procedures/Precautions in handling, packaging, transporting and storage
- 3. Appropriate label
- 4. Recommended method of disposal

Rubber gloves, safety goggles and safety boots to prevent contact with the skin. Performed in open areas or well-ventilated areas.

Toxic, flammable. Recycle or incineration.

C: PRECAUTION IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING PERSONAL INJURY

- In case of inhalation of fumes or oral intake
 - Symptoms of intoxication

In case of dermal contact or contact

Symptoms of intoxication

Guidelines for the physician

Appropriate first aid.

Appropriate first aid
Guidelines for the physicians

Take out for fresh air.

Dizziness, vomiting. Keep airways free. Call a physician immediately. Refer to National Poison Centre. For eye contact: rinse with plenty of water and seek medical help. For skin contact: take off immediately all contaminated clothing. Rinse skin with water/shower. Dizziness, vomiting. Wash with clean running water. Refer to National Poison Centre.

D: STEPS TO BE TAKEN IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING MATERIAL DAMAGE ARISING FROM -

- 1. Spill on floor, soil, road, etc
- 2. Spill into water

_

with eyes

3. Fire

2.

4. Explosion

Contain spill using spill kit materials. Block water way and contain spills materials. Use fire extinguisher foam, carbon dioxide (CO₂), dry powder. Waste has no potential of self-explosion.

Waste Generator Address:	INSTITUT SAINS BIOLOGI, FAKULTI SAINS, UNIVERSITI MALAYA 50603 KUALA LUMPUR
Person in Charge:	PUAN NOR SHAHIDAH MUSTAPHA

°C — not available Liquid Yes Yes

50 °C / 122°F

Yes No

Yes



SEVENTH SCHEDULED (Regulation 13) **INFORMATION** SW322 - WASTE OF NON-HALOGENATED ORGANIC SOLVENTS



PROPERTIES **A**:

Category 1.

SW322

- 2. Origin
 - Laboratory experiment or testing
- 3. Physical Properties of Waste
 - $-40\ {}^{0}C 40\ {}^{0}C$ Flash Point $20^{0}C - 100^{0}C$ **Boiling Point** Consistency in the room Liquid
 - temperature
 - Vapors heavier than air _
 - Solubility in water
 - Waste lighter/heavier than water -
- Risks 4.
 - by inhalation
 - by oral intake _
 - by dermal contact

B: HANDLING OF WASTE

- 1. Personal protection equipment
- 2. Procedures/Precautions in handling, packaging, transporting and storage
- 3. Appropriate label
- 4. Recommended method of disposal

Rubber gloves, safety goggles and safety boots to prevent contact with the skin. Performed in open areas or well-ventilated areas.

Recycle or incineration.

PRECAUTION IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING PERSONAL INJURY **C**:

- In case of inhalation of fumes or oral 1. intake
 - Symptoms of intoxication

In case of dermal contact or contact

Symptoms of intoxication

Guidelines for the physician

Appropriate first aid.

Appropriate first aid Guidelines for the physicians Take out for fresh air.

Dizziness, vomiting. Keep airways free. Call a physician immediately. Refer to National Poison Centre. For eye contact: rinse with plenty of water and seek medical help. For skin contact: take off immediately all contaminated clothing. Rinse skin with water/shower. Dizziness, vomiting. Wash with clean running water. Refer to National Poison Centre.

D: STEPS TO BE TAKEN IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING MATERIAL **DAMAGE ARISING FROM -**

- Spill on floor, soil, road, etc 1.
- 2. Spill into water

_

with eyes

3. Fire

2.

4. Explosion Contain spill using spill kit materials. Block waterways and contain spilled materials. Use fire extinguisher foam, carbon dioxide (CO₂), dry powder. Waste has no potential for self-explosion.

Waste Generator Address:	INSTITUT SAINS BIOLOGI, FAKULTI SAINS, UNIVERSITI MALAYA 50603 KUALA LUMPUR
Person in Charge:	PUAN NOR SHAHIDAH MUSTAPHA

Yes Yes Less heavy Yes

No Yes

Toxic, flammable.



SEVENTH SCHEDULED (Regulation 13) **INFORMATION** SW323 – WASTE OF HALOGENATED **ORGANIC SOLVENTS**



PROPERTIES **A**:

1. Category

- SW323
- 2. Origin
 - Laboratory experiment or testing
- 3. Physical Properties of Waste
 - Flash Point
 - **Boiling Point**
 - Consistency in the room temperature
 - Vapors heavier than air
 - Solubility in water
 - Waste lighter/heavier than water Mostly heavier _

Risks 4.

-	by inhalation	Yes
-	by oral intake	No

by dermal contact

B: HANDLING OF WASTE

- 1. Personal protection equipment
- 2. Procedures/Precautions in handling, packaging, transporting and storage
- 3. Appropriate label
- 4. Recommended method of disposal

C: PRECAUTION IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING PERSONAL INJURY

- In case of inhalation of fumes or oral 1 intake
 - Symptoms of intoxication
 - Appropriate first aid
 - Keep airways free. Call a physician immediately. Guidelines for the physicians Refer to National Poison Centre.
- 2. In case of dermal contact or contact with eyes
 - Symptoms of intoxication
 - Appropriate first aid.
 - Guidelines for the physician

D: STEPS TO BE TAKEN IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING MATERIAL DAMAGE ARISING FROM -

- Spill on floor, soil, road, etc 1.
- 2. Spill into water
- 3. Fire
- 4. Explosion

Contain spill using spill kit materials. Block waterway and contain spilled materials. Use fire extinguisher foam, carbon dioxide (CO₂), dry powder. Waste has no potential of self-explosion.

Waste Generator Address:	INSTITUT SAINS BIOLOGI, FAKULTI SAINS, UNIVERSITI MALAYA 50603 KUALA LUMPUR
Person in Charge:	PUAN NOR SHAHIDAH MUSTAPHA

Yes Rubber gloves, safety goggles and safety boots to

Performed in open areas or well-ventilated areas.

For eye contact: rinse with plenty of water and seek

Toxic, harmful to health. Recycle or incineration.

> For skin contact: take off immediately all contaminated clothing. Rinse skin with

Wash with clean running water.

Refer to National Poison Centre.

prevent contact with the skin.

⁰C – non-flammable $30^{0}C - 100^{0}C$

Liquid

Yes

No

Dizziness, vomiting

medical help.

water/shower.

Dizziness, vomiting.

Take out for fresh air.



SEVENTH SCHEDULED (Regulation 13) INFORMATION SW402 - SPENT ALKALIS WITH MORE OR EQUAL **TO 11.5 WHICH ARE CORROSIVE OR HAZARDOUS**



PROPERTIES **A**:

- 1. Category
 - SW402
- 2. Origin
 - Laboratory work
- 3. Physical Properties of Waste
 - Flash Point
 - **Boiling Point**
 - Consistency in the room temperature
 - Vapors heavier than air
 - Solubility in water _
 - Waste lighter/heavier than water _
- 4. Risks
 - by inhalation
 - by oral intake
 - by dermal contact

B: HANDLING OF WASTE

- Personal protection equipment 1.
- 2. Procedures/Precautions in handling, packaging, transporting and storage
- 3. Appropriate label

with eyes

4. Recommended method of disposal ${}^{0}C$ – not available ${}^{0}C - not available$ Liquid/Solid

No Not soluble Mostly heavier

Yes No Yes

Rubber gloves, safety goggles and safety boots to prevent contact with the skin. Performed in open areas or well-ventilated areas.

Toxic, corrosive. Recycle or incineration.

C: PRECAUTION IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING PERSONAL INJURY

- In case of inhalation of fumes or oral 1. intake
 - Symptoms of intoxication

In case of dermal contact or contact

Symptoms of intoxication

Guidelines for the physician

Appropriate first aid.

- Appropriate first aid Guidelines for the physicians
- Take out for fresh air. Dizziness, vomiting.
- Keep airways free. Call a physician immediately. Refer to National Poison Centre For eye contact: rinse with plenty of water and seek medical help. For skin contact: take off immediately all contaminated clothing. Rinse skin with water/shower. Dizziness, vomiting. Wash with clean running water. Refer to National Poison Centre.

D: STEPS TO BE TAKEN IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING MATERIAL **DAMAGE ARISING FROM** -

- Spill on floor, soil, road, etc 1.
- 2. Spill into water
- Fire 3.

2.

Explosion 4.

Contain spill using spill kit materials. Block water way and contain spills materials. Use fire extinguisher foam, carbon dioxide (CO₂), dry powder. Waste has no potential of self-explosion.

Waste Generator Address:	INSTITUT SAINS BIOLOGI, FAKULTI SAINS, UNIVERSITI MALAYA 50603 KUALA LUMPUR
Person in Charge:	PUAN NOR SHAHIDAH MUSTAPHA



SEVENTH SCHEDULED (Regulation 13) **INFORMATION** SW409 – DISPOSED CONTAINERS, BAGS OR EQUIPMENT CONTAMINATED WITH CHEMICALS ETC



PROPERTIES **A**:

1.

3.

2.

- Category
 - SW409
- 2. Origin
 - Laboratory work
 - Physical Properties of Waste
 - Flash Point _
 - **Boiling Point**
 - Consistency in the room temperature
 - Vapors heavier than air _
 - Solubility in water
 - Waste lighter/heavier than water -
- Risks 4.
 - by inhalation
 - by oral intake _
 - by dermal contact _

B: HANDLING OF WASTE

- 1. Personal protection equipment
- 2. Procedures/Precautions in handling, packaging, transporting and storage
- 3. Appropriate label

with eyes

-

4. Recommended method of disposal Liquid/Solid No Not soluble

⁰C – not available

⁰C – not available

Mostly heavier

Rubber gloves, safety goggles and safety boots to prevent contact with the skin. Performed in open areas or well-ventilated areas.

Recycle or incineration.

C: PRECAUTION IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING PERSONAL INJURY

- In case of inhalation of fumes or oral 1. intake
 - Symptoms of intoxication

In case of dermal contact or contact

Guidelines for the physicians

Symptoms of intoxication

Guidelines for the physician

Appropriate first aid.

Appropriate first aid

Take out for fresh air.

Dizziness, vomiting. Keep airways free. Call a physician immediately. Refer to National Poison Centre. For eye contact: rinse with plenty of water and seek medical help. For skin contact: take off immediately all contaminated clothing. Rinse skin with water/shower. Dizziness, vomiting. Wash with clean running water. Refer to National Poison Centre.

D: STEPS TO BE TAKEN IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING MATERIAL **DAMAGE ARISING FROM** -

Spill on floor, soil , road, etc Contain spill using spill kit materials. 1. 2. Spill into water Block water way and contain spills materials Use fire extinguisher foam, carbon dioxide (CO_2), dry 3. Fire powder. 4. Explosion Waste has no potential of self-explosion.

Waste Generator Address:	INSTITUT SAINS BIOLOGI, FAKULTI SAINS, UNIVERSITI MALAYA 50603 KUALA LUMPUR
Person in Charge:	PUAN NOR SHAHIDAH MUSTAPHA

Yes No Yes

Toxic.



SEVENTH SCHEDULED (Regulation 13) INFORMATION SW421 – A MIXTURE OF SCHEDULED WASTES



PROPERTIES **A**:

- 1. Category
 - SW421
- 2. Origin
 - Chemicals that which were mixed during experiment in laboratory
- 3. Physical Properties of Waste
 - Flash Point
 - **Boiling Point**
 - Consistency in the room temperature
 - Vapors heavier than air
 - Solubility in water _
 - Waste lighter/heavier than water _
- 4. Risks
 - by inhalation
 - by oral intake
 - by dermal contact

B: HANDLING OF WASTE

- Personal protection equipment 1.
- 2. Procedures/Precautions in handling, packaging, transporting and storage
- 3. Appropriate label

with eyes

4. Recommended method of disposal

⁰C – not available ${}^{0}C - not available$ Liquid/Solid

No Not soluble Mostly heavier

Yes No Yes

Rubber gloves, safety goggles and safety boots to Performed in open areas or well-ventilated areas.

Toxic, corrosive, harmful, flammable, oxidizing Recycle or incineration.

C: PRECAUTION IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING PERSONAL INJURY

- In case of inhalation of fumes or oral 1. intake
 - Symptoms of intoxication
 - Appropriate first aid
- Dizziness, vomiting.

Take out for fresh air.

Keep airways free. Call a physician immediately. Refer to National Poison Centre. Guidelines for the physicians In case of dermal contact or contact For eye contact: rinse with plenty of water and seek medical help. For skin contact: take off immediately all contaminated clothing. Rinse skin with water/shower. Symptoms of intoxication Dizziness, vomiting. Appropriate first aid. Wash with clean running water. Refer to National Poison Centre. Guidelines for the physician

D: STEPS TO BE TAKEN IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING MATERIAL **DAMAGE ARISING FROM -**

- Spill on floor, soil, road, etc 1.
- 2. Spill into water
- Fire 3.

2.

4. Explosion Contain spill using spill kit materials. Block water way and contain spills materials Use fire extinguisher type dust, foam and carbon dioxide (CO_2) only. Waste has no potential of self-explosion.

Waste Generator Address:	INSTITUT SAINS BIOLOGI, FAKULTI SAINS, UNIVERSITI MALAYA 50603 KUALA LUMPUR
Person in Charge:	PUAN NOR SHAHIDAH MUSTAPHA

prevent contact with the skin.



SEVENTH SCHEDULED (Regulation 13) INFORMATION SW429 - CHEMICALS THAT ARE **DISCRADED OR OFF- SPECIFICATION**



PROPERTIES **A**:

1. Category

SW430

- 2. Origin
 - Laboratory work
- 3. Physical Properties of Waste
 - Flash Point
 - **Boiling Point**
 - Consistency in the room temperature
 - Vapors heavier than air
 - Solubility in water _
 - Waste lighter/heavier than water _
- 4. Risks
 - by inhalation
 - by oral intake
 - by dermal contact

B: HANDLING OF WASTE

- Personal protection equipment 1.
- 2. Procedures/Precautions in handling, packaging, transporting and storage
- 3. Appropriate label
- 4. Recommended method of disposal

${}^{0}C$ – not available ${}^{0}C - not available$ Liquid/Solid

No Not soluble Mostly heavier

Yes

Rubber gloves, safety goggles and safety boots to prevent contact with the skin. Performed in open areas well-ventilated areas.

Toxic, corrosive, harmful to health, flammable, oxidizing. Recycle or incineration.

C: PRECAUTION IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING PERSONAL INJURY

- 1. In case of inhalation of fumes or oral intake
 - Symptoms of intoxication
 - Appropriate first aid
 - Guidelines for the physicians

Symptoms of intoxication

Guidelines for the physician

Appropriate first aid.

2. In case of dermal contact or contact with eyes

Take out for fresh air.

Dizziness, vomiting. Keep airways free. Call a physician immediately. Refer to National Poison Centre. For eye contact: rinse with plenty of water and seek medical help. For skin contact: take off immediately all contaminated clothing. Rinse skin with water/shower. Dizziness, vomiting. Wash with clean running water. Refer to National Poison Centre.

D: STEPS TO BE TAKEN IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING MATERIAL DAMAGE ARISING FROM -

- Spill on floor, soil, road, etc 1.
- 2. Spill into water

_

- 3. Fire
- 4. Explosion

Contain spill using spill kit materials. Block water way and contain spills materials. Use fire extinguisher type dust, foam and CO₂ only. Waste has no potential of self-explosion.

Waste Generator Address:	INSTITUT SAINS BIOLOGI, FAKULTI SAINS, UNIVERSITI MALAYA 50603 KUALA LUMPUR
Person in Charge:	PUAN NOR SHAHIDAH MUSTAPHA

No Yes



SEVENTH SCHEDULED (Regulation 13) INFORMATION SW430 – OBSOLETE LABORATORY **CHEMICALS**



PROPERTIES **A**:

1. Category

- SW430
- 2. Origin
 - Laboratory work
- 3. Physical Properties of Waste
 - Flash Point
 - Boiling Point
 - Consistency in the room temperature
 - Vapors heavier than air
 - Solubility in water _
 - Waste lighter/heavier than water _

4. Risks

- by inhalation
- by oral intake _
- by dermal contact

B: HANDLING OF WASTE

- Personal protection equipment 1.
- 2. Procedures/Precautions in handling, packaging, transporting and storage
- 3. Appropriate label
- 4. Recommended method of disposal

 ${}^{0}C$ – not available ${}^{0}C - not available$ Liquid/Solid

No Not soluble Mostly heavier

Yes No Yes

Rubber gloves, safety goggles and safety boots to prevent contact with the skin. Performed in open areas or well-ventilated areas.

Toxic, corrosive, harmful, flammable, oxidizing. Recycle or incineration.

C: PRECAUTION IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING PERSONAL INJURY

- 1. In case of inhalation of fumes or oral intake
 - Symptoms of intoxication
 - Appropriate first aid
- Keep airways free. Call a physician immediately.
 - Refer to National Poison Centre. Guidelines for the physicians For eye contact: rinse with plenty of water and seek

medical help.

water/shower.

Take out for fresh air.

Dizziness, vomiting.

- 2. In case of dermal contact or contact with eyes
 - Symptoms of intoxication
 - Appropriate first aid.
 - Guidelines for the physician

Dizziness, vomiting. Wash with clean running water. Refer to National Poison Centre.

For skin contact: take off immediately all contaminated clothing. Rinse skin with

D: STEPS TO BE TAKEN IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING MATERIAL **DAMAGE ARISING FROM -**

- Spill on floor, soil, road, etc 1.
- 2. Spill into water
- Fire 3.
- 4. Explosion

Contain spill using spill kit materials. Block water way and contain spills materials. Use fire extinguisher type dust, foam and CO_2 only. Waste has no potential of self-explosion.

Waste Generator Address:	INSTITUT SAINS BIOLOGI, FAKULTI SAINS, UNIVERSITI MALAYA 50603 KUALA LUMPUR
Person in Charge:	PUAN NOR SHAHIDAH MUSTAPHA



SEVENTH SCHEDULED (Regulation 13) **INFORMATION** SW306 – SPENT HYDRAULIC OIL



PROPERTIES A:

- Category 1.
 - SW306
- 2. Origin
- Laboratory equipment
- 3. Physical Properties of Waste
 - Flash Point _
 - Boiling Point
 - Consistency in the room temperature
 - Vapors heavier than air
 - Solubility in water
 - Waste lighter/heavier than water _
- Risks 4.

2.

- by inhalation
- by oral intake _
- by dermal contact

B: HANDLING OF WASTE

- 1. Personal protection equipment
- 2. Procedures/Precautions in handling, packaging, transporting and storage
- 3. Appropriate label

with eyes

_

4. Recommended method of disposal Safety shoes, overalls, gloves and safety glasses.

Performed in open areas or well-ventilated areas.

Recycle or incineration.

PRECAUTION IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING PERSONAL INJURY C:

- In case of inhalation of fumes or oral 1. intake
 - Symptoms of intoxication

In case of dermal contact or contact

Symptoms of intoxication

Guidelines for the physician

Appropriate first aid.

Guidelines for the physicians

Appropriate first aid

Rinse mouth with water.

Dizziness, vomiting. Keep airways free. Call a physician immediately. Refer to National Poison Centre. For eye contact: rinse with plenty of water and seek medical help. For skin contact: take off immediately all contaminated clothing. Rinse skin with water/shower. Dizziness, vomiting. Wash with clean running water. Refer to National Poison Centre.

D: STEPS TO BE TAKEN IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING MATERIAL **DAMAGE ARISING FROM** -

Spill on floor, soil, road, etc Contain spill using spill kit materials. 1. 2. Spill into water Block water way and contain spills materials Use fire extinguisher type dust, foam and CO₂ only 3. Fire Waste has no potential of self-explosion. 4. Explosion

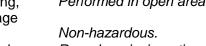
Waste Generator Address:	INSTITUT SAINS BIOLOGI, FAKULTI SAINS, UNIVERSITI MALAYA 50603 KUALA LUMPUR
Person in Charge:	PUAN NOR SHAHIDAH MUSTAPHA

 ${}^{0}C$ – not available Liquid No

Not soluble Mostly heavier

>150 °C

Yes Yes Yes





SEVENTH SCHEDULED (Regulation 13) **INFORMATION** SW109 – WASTE CONTAINING MERCURY OR ITS COMPOUND



PROPERTIES **A**:

1.

- Category
 - SW109
- 2. Origin
- Thermometer spillage 3.
 - **Physical Properties of Waste**
 - Flash Point _
 - Boiling Point
 - Consistency in the room temperature
 - Vapors heavier than air _
 - Solubility in water
 - Waste lighter/heavier than water _
- Risks 4.
 - by inhalation
 - by oral intake _
 - by dermal contact

B: HANDLING OF WASTE

1. Personal protection equipment

2. Procedures/Precautions in handling, packaging, transporting and storage

- 3. Appropriate label
- Recommended method of disposal 4.

356.72 °C Liquid No

⁰C – not available

Not soluble Mostly heavier

Yes No Yes

Protective gloves, eyeglasses, or chemical safety goggles, approved respirator if exposure limits are exceeded and safety boots to prevent contact with the skin.

Use only under a chemical fume hood. Keep containers tightly closed in a dry, cool and well-ventilated area. Toxic, harmful to health.

Must consult local, regional and national hazardous waste regulations.

Coughing, sore throat, chest pain, difficulty breathing,

Keep airways free. Drink plenty or water. Call a

For eye contact: rinse with plenty of water at least

For skin contact: wash off immediately with soap and plenty of water while removing all contaminated cloth and shoes. Immediate seek medical help. Tremor, emotional changes, headache, weakness,

C: PRECAUTION IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING PERSONAL INJURY Take out for fresh air.

vomiting, headache.

physician immediately.

muscle atrophy, twitching.

Refer to National Poison Centre.

15 minutes and seek medical help.

- In case of inhalation of fumes or oral 1. intake
 - Symptoms of intoxication
 - Appropriate first aid
 - Guidelines for the physicians
- 2. In case of dermal contact or contact with eyes
 - Symptoms of intoxication
 - Appropriate first aid.
 - Guidelines for the physician

D: STEPS TO BE TAKEN IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING MATERIAL **DAMAGE ARISING FROM**-

- Spill on floor, soil, road, etc 1.
- Spill into water 2.
- 3. Fire
- 4. Explosion

Refer to National Poison Centre. Contain spill using spill kit materials. Block water way and contain spills materials. Substance in nonflammable, use agent most appropriate to extinguish surrounding fire

Waste has no potential of self-explosion.

Wash with clean running water, drink plenty of water.

	INSTITUT SAINS BIOLOGI, FAKULTI SAINS, UNIVERSITI MALAYA 50603 KUALA LUMPUR
Person in Charge:	PUAN NOR SHAHIDAH MUSTAPHA



SEVENTH SCHEDULED (Regulation 13) INFORMATION SW110 – WASTE FROM ELECTRICAL OR ELECTRONIC ASSEMBLIES CONTAINING COMPONENT SUCH AS ACCUMULATORS, MERCURY ETC



A: **PROPERTIES**

1. Category

- SW110
- 2. Origin

- Electrical or electronic component assemblies containing component such as accumulators, mercury etc.

Yes

No Yes

- 3. Physical Properties of Waste
 - Flash Point
 - Boiling Point
 - Consistency in the room temperature
 - Vapors heavier than air
 - Solubility in water

Liquid No Not soluble

Mostly heavier

356.72 °C

 ${}^{0}C - not available$

- Waste lighter/heavier than water
- 4. Risks
 - by inhalation
 - by oral intake
 - by dermal contact

B: HANDLING OF WASTE

- 1. Personal protection equipment
- 2. Procedures/Precautions in handling, packaging, transporting and storage
- 3. Appropriate label
- 4. Recommended method of disposal

Protective gloves, eyeglasses or chemical safety goggles, approved respirator if exposure limits are exceeded and safety boots to prevent contact with the skin.

Use only under a chemical fume hood. Keep containers tightly closed in dry, cool and well-ventilated areas. Toxic, harmful to health. Must consult local, regional and national hazardous

waste regulations.

Keep airways free. Drink plenty of water. Call a

For eye contact: rinse with plenty of water for at

For skin contact: wash off immediately with soap and plenty of water while removing all contaminated cloth and shoes. Immediate seek medical help. Tremor, emotional changes, headache, weakness,

Wash with clean running water, drink plenty of water.

least 15 minutes and seek medical help.

Coughing, sore throat, chest pain, difficulty breathing,

C: PRECAUTION IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING PERSONAL INJURY

Take out for fresh air.

vomiting, headache.

physician immediately.

muscle atrophy, twitching.

Refer to National Poison Centre.

Refer to National Poison Centre.

- In case of inhalation of fumes or oral intake
 - Symptoms of intoxication
 - Appropriate first aid
 - Guidelines for the physicians
- 2. In case of dermal contact or contact with eyes
 - Symptoms of intoxication
 - Appropriate first aid.
 - Guidelines for the physician

D: STEPS TO BE TAKEN IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING MATERIAL DAMAGE ARISING FROM --

- 1. Spill on floor, soil , road, etc
- 2. Spill into water

Contain spill using spill kit materials. Block water way and contain spills materials.

- 3. Fire
- 4. Explosion

Substance in nonflammable, use agent most appropriate to extinguish surrounding fire Waste has no potential of self-explosion.

Waste Generator Address:	INSTITUT SAINS BIOLOGI, FAKULTI SAINS, UNIVERSITI MALAYA 50603 KUALA LUMPUR
Person in Charge:	PUAN NOR SHAHIDAH MUSTAPHA



SEVENTH SCHEDULED (Regulation 13) INFORMATION SW319 – WASTE OF PHENOLS OR PHENOL COMPOUNDS INCLUDING CHLOROPHENOL IN THE FORM OF LIQUIDS OR SLUDGES



A: **PROPERTIES**

- 1. Category
 - SW319
- 2. Origin
 - Laboratory experiment or testing
- 3. Physical Properties of Waste
 - Flash Point
 - Boiling Point
 - Consistency in the room temperature
 - Vapors heavier than air
 - Solubility in water
 - Waste lighter/heavier than water
- 4. Risks

3. 4.

- by inhalation
- by oral intake
- by dermal contact

B: HANDLING OF WASTE

- 1. Personal protection equipment
- 2. Procedures/Precautions in handling, packaging, transporting and storage

Protective gloves, eyeglasses or chemical safety goggles, approved respirator if exposure limits are exceeded and safety boots to prevent contact with the skin.

Use only under a chemical fume hood or use a full face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridge as a backup to engineering controls. Handle with gloves (butyl rubber), face shield and eye protection. Keep containers tightly closed in dry and well-ventilated areas. Light sensitive, stored under inert gas and air sensitive.

Toxic, corrosive and harmful to health. Must consult local, regional and national hazardous waste regulations.

C: PRECAUTION IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING PERSONAL INJURY

1. In case of inhalation of fumes or oral intake

Recommended method of disposal

Appropriate label

- Symptoms of intoxication
- Appropriate first aid
- Guidelines for the physicians
- 2. In case of dermal contact or contact with eyes

Take out for fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Consult a physician. Immediately call a POISON CENTER or a doctor/physician. Cough, whizzing, laryngitis, shortness of breath, headache, nausea, vomiting. Keep airways free. If not breathing, give artificial respiration.

Consult a physician immediately. Refer to National Poison Centre.

For eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

For skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

182 ^UC - lit Liquid Yes

79°C – closed cup

Soluble Less heavier

Yes Yes

Yes

- Symptoms of intoxication
- Appropriate first aid.
- Guidelines for the physician

Caused severe skin burn and eye damage. Wash with clean running water. Refer to National Poison Centre.

D: STEPS TO BE TAKEN IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING MATERIAL DAMAGE ARISING FROM -

- 1. Spill on floor, soil , road, etc
- 2. Spill into water
- 3. Fire
- 4. Explosion

Contain spill using spill kit materials. Block water way and contain spills materials Substance is nonflammable but incompatible with strong oxidizing agents, strong acids and strong bases Waste has no potential of self-explosion.

Waste Generator Address:	INSTITUT SAINS BIOLOGI, FAKULTI SAINS, UNIVERSITI MALAYA 50603 KUALA LUMPUR
Person in Charge:	PUAN NOR SHAHIDAH MUSTAPHA



SEVENTH SCHEDULED (Regulation 13) INFORMATION SW305 – SPENT LUBRICATING OIL

>234°C

Liauid

Yes

Yes

Yes Yes

Negligible

> 316 C (estimated)



A: **PROPERTIES**

- 1. Category
 - SW305
- 2. Origin
 - Laboratory equipment.
- 3. Physical Properties of Waste
 - Flash Point
 - Boiling Point
 - Consistency in the room temperature
 - Vapors heavier than air
 - Solubility in water
 - Waste lighter/heavier than water Less heavier
- 4. Risks
 - by inhalation
 - by oral intake
 - by dermal contact

B: HANDLING OF WASTE

- 1. Personal protection equipment
- 2. Procedures/Precautions in handling, packaging, transporting and storage
- 3. Appropriate label
- 4. Recommended method of disposal

Safety shoes, overalls, gloves and safety glasses.

Performed in open areas or well-ventilated areas.

No significant hazards. Must consult local, regional and national hazardous waste regulation.

C: PRECAUTION IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING PERSONAL INJURY

- 1. In case of inhalation of fumes or oral intake
 - Symptoms of intoxication
 - Appropriate first aid
 - Guidelines for the physicians

Symptoms of intoxication

Guidelines for the physician

Appropriate first aid.

2. In case of dermal contact or contact with eyes

Take out for fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Consult a physician. Not determined. Removes from further exposure. Consult a physician immediatelv. Refer to National Poison Centre. For eye contact : Flush thoroughly with water. If irritation occurs, get medical assistance. For skin contact: Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Minimally toxic and not expected to be harmful. Wash with clean running water.

Refer to National Poison Centre.

D: STEPS TO BE TAKEN IN CASE OF SPILL OR ACCIDENTAL DISCHARGE CAUSING MATERIAL DAMAGE ARISING FROM -

1. Spill on floor, soil , road, etc

Land Spill: Stop leak if you can do so without risk. Recover by pumping or with suitable absorbent. Contain spill using spill kit materials. Stop leak if you can do so without risk. Confine the spill

2. Spill into water

3. Fire 4. Explosion	immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants. Use fire extinguisher type dust, foam and CO_2 only. Waste has no potential of self-explosion.
Waste Generator Address:	INSTITUT SAINS BIOLOGI, FAKULTI SAINS, UNIVERSITI

Waste Generator Address:	INSTITUT SAINS BIOLOGI, FAKULTI SAINS, UNIVERSITI MALAYA 50603 KUALA LUMPUR
Person in Charge:	PUAN NOR SHAHIDAH MUSTAPHA