



THE STATUTES OF THE REPUBLIC OF SINGAPORE

BIOLOGICAL AGENTS AND TOXINS ACT

(CHAPTER 24A)

(Original Enactment: Act 36 of 2005)

REVISED EDITION 2006

(31st December 2006)

Prepared and Published by

THE LAW REVISION COMMISSION
UNDER THE AUTHORITY OF
THE REVISED EDITION OF THE LAWS ACT (CHAPTER 275)

Informal Consolidation – version in force from 1/12/2017

Biological Agents and Toxins Act

ARRANGEMENT OF SECTIONS

PART I

PRELIMINARY

Section

1. Short title
2. Interpretation

PART II

ADMINISTRATION AND APPLICATION

3. Administration of Act
4. Act not to apply in relation to use of biological agents or toxins for certain purposes

PART III

BIOLOGICAL AGENTS AND INACTIVATED BIOLOGICAL AGENTS

Division 1 — General

5. Prohibition against use of biological agents for non-peaceful purpose, etc.

Division 2 — First Schedule biological agents

Subdivision (1) — Possession and use

6. Prohibition against possession of First Schedule biological agents without approval
7. Prohibition against large-scale production of First Schedule biological agents without approval

Subdivision (2) — Import and transhipment

8. Prohibition against import or transhipment of First Schedule biological agents without permit
9. Notification of failure of receipt of import
10. Storage of First Schedule biological agents upon import or pending transhipment

Subdivision (3) — Transfer

Section

11. Prohibition against transfers of First Schedule biological agents except by certain persons
12. Notifications relating to transfers of First Schedule biological agents

Subdivision (4) — Transportation

13. Prohibition against transportation by certain means

*Division 3 — Second Schedule biological agents**Subdivision (1) — Possession and use*

14. Prohibition against use of Second Schedule biological agents without special approval
15. Prohibition against possession of Second Schedule biological agents without approval
16. Prohibition against large-scale production of Second Schedule biological agents

Subdivision (2) — Import and transshipment

17. Prohibition against import or transshipment of Second Schedule biological agents without permit
18. Notification of failure of receipt of import
19. Storage of Second Schedule biological agents upon import or pending transshipment

Subdivision (3) — Transfer

20. Prohibition against transfers of Second Schedule biological agents except by certain persons
21. Notifications relating to transfers of Second Schedule biological agents

Subdivision (4) — Transportation

22. Prohibition against transportation by certain means

Division 4 — Third Schedule biological agents

23. Prohibition against large-scale production of Third Schedule biological agents without approval
24. Prohibition against transportation by certain means

Division 5 — Fourth Schedule biological agents

Section

- 25. Prohibition against import of Fourth Schedule biological agents without permit
- 26. Prohibition against transportation by certain means

Division 6 — Inactivated biological agents

- 27. Prohibition against inactivation of biological agents
- 28. Prohibition against import of inactivated biological agents without permit
- 29. Prohibition against transportation by certain means

PART IV

TOXINS

Division 1 — General

- 30. Prohibition against use of toxins for non-peaceful purpose, etc.

Division 2 — Possession and use

- 31. Prohibition against possession of Fifth Schedule toxins without approval

Division 3 — Import and transshipment

- 32. Prohibition against import or transshipment of Fifth Schedule toxins without permit
- 33. Notification of failure of receipt of import
- 34. Storage of Fifth Schedule toxins upon import or pending transshipment

Division 4 — Transfer

- 35. Prohibition against transfers of Fifth Schedule toxins except by certain persons
- 36. Notifications relating to transfers of Fifth Schedule toxins

Division 5 — Transportation

- 37. Prohibition against transportation by certain means

PART V

DUTIES AND OBLIGATIONS
IN RELATION TO BIOLOGICAL AGENTS
AND TOXINS*Division 1 — Duties and obligations of operators,
biosafety committees, biosafety co-ordinators
and staff of facilities*

Section

- 38. Application
- 39. Appointment of biosafety committee and biosafety co-ordinator
- 40. Maintaining facilities and equipment
- 41. Activities and staff
- 42. Visitors
- 43. Use of animals
- 44. Records and reporting requirements
- 45. Failure to perform duties and obligations

*Division 2 — Duties and obligations of carriers
of biological agents and toxins*

- 46. Application
- 47. Transportation of biological agents and toxins
- 48. Packaging and labelling of biological agents and toxins
- 49. Failure to perform duties and obligations

PART VI

APPROVALS, PERMITS AND
CERTIFICATION OF FACILITIES

- 50. Approvals and permits
- 51. Certification of facilities

PART VII

ENFORCEMENT

- 52. Power of entry, inspection, search and seizure, etc.
- 53. Power to make orders for cessation of activity on facilities, etc.
- 54. Power of seizure
- 55. Obstruction of public officers
- 56. Offences by bodies corporate, etc.
- 57. Liability for offences by agents or servants
- 58. Jurisdiction of court

Section

59. Composition of offences

PART VIII

MISCELLANEOUS

60. Appeal to Minister
61. General exemption
62. Amendment of Schedules
63. Regulations
 First Schedule — First Schedule Biological Agents
 Second Schedule — Second Schedule Biological Agents
 Third Schedule — Third Schedule Biological Agents
 Fourth Schedule — Fourth Schedule Biological Agents
 Fifth Schedule — Fifth Schedule Toxins
 Sixth Schedule — Biosafety Committee
 Seventh Schedule— Biohazard Sign
 Eighth Schedule — Non-compoundable Offences
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An Act to prohibit or otherwise regulate the possession, use, import, transshipment, transfer and transportation of biological agents, inactivated biological agents and toxins, to provide for safe practices in the handling of such biological agents and toxins.

[3rd January 2006]

PART I

PRELIMINARY

Short title

1. This Act may be cited as the Biological Agents and Toxins Act.

Interpretation

2. In this Act, unless the context otherwise requires —
 “approval” means an approval granted by the Director under this Act;

“biological agent” means —

- (a) any micro-organism (including any bacterium, virus, fungus, rickettsia and parasite);
- (b) any infectious substance (including any prion); or
- (c) any component of a micro-organism or an infectious substance (but not including any toxin),

that is capable of causing death, disease or other biological malfunction in a human;

“biological agent waste” means any unwanted, unused or obsolete biological agent or any material or waste contaminated with any biological agent;

“biosafety committee” means a biosafety committee appointed under section 39;

“certification”, in relation to a facility, means a certification under section 51, and includes a re-certification of the facility;

“certified facility” means a facility certified under section 51;

“diagnosis” means any activity undertaken solely with the intention of analysing any specimen from a person or an animal in which a biological agent is or is suspected of being present for the purpose of —

- (a) determining the cause of any disease suffered by any person or animal;
- (b) assessing the clinical progress of any person or animal;
- (c) carrying out the clinical management of any person or animal; or
- (d) determining the cause of death of any person or animal in an autopsy;

“Director” means the Director of Medical Services;

“enforcement officer” means any person appointed by the Director to be an enforcement officer under section 3(2);

“excluded purpose” means any purpose specified in section 4(1);

“facility” means any premises or conveyance that is being used for —

- (a) the storage of any biological agent or toxin; or
- (b) the carrying out of any activity involving any biological agent or toxin;

“Fifth Schedule toxin” means any toxin specified in the Fifth Schedule;

“First Schedule (Part I) biological agent” means any biological agent specified in Part I of the First Schedule;

“First Schedule (Part II) biological agent” means any biological agent specified in Part II of the First Schedule;

“First Schedule biological agent” means any biological agent specified in the First Schedule;

“Fourth Schedule biological agent” means any biological agent specified in the Fourth Schedule;

“goods in transit” means goods that are brought into Singapore solely for the purpose of taking them out of Singapore, whether on the same conveyance on which they were brought into Singapore or on another conveyance, without the goods being landed and kept at any place in Singapore pending their being taken out of Singapore;

“import” means to bring into Singapore any goods other than goods in transit or goods which are to be transhipped;

“inactivated”, in relation to a biological agent, means that the biological agent has been rendered non-infectious and unable to replicate itself under any condition;

“large-scale production”, in relation to a biological agent, means the production by any person of the biological agent using equipment at a facility capable of producing in aggregate 10 or more litres of culture of the biological agent at any one time;

“non-peaceful purpose” means any purpose that is calculated to —

- (a) cause death to any person or endanger any person's life;
- (b) create a serious risk to the health or the safety of the public or a section of the public;
- (c) release into the environment, distribute, or expose the public or a section of the public to, any biological agent or toxin, in order to cause damage or harm to the environment or the public or a section thereof;
- (d) disrupt or seriously interfere with the provision of essential emergency services such as the police, civil defence and medical services;
- (e) cause prejudice to public security or national defence;
- (f) influence or compel the Government, any other government, or any international organisation to do or refrain from doing any act; or
- (g) intimidate the public or a section of the public;

“operator”, in relation to a facility, means the person who operates the facility or who has the management or control of the facility;

“permit” means a permit granted by the Director under this Act;

“protected place” means any premises declared to be a protected place under the Protected Areas and Protected Places Act (Cap. 256);

“public transportation” means transportation by bus, taxi, rail or any other conveyance, whether publicly or privately operated, which provides general or special service to the general public on a regular and continuing basis, and includes such other means of transportation as may be prescribed as a type of public transportation for the purposes of this Act;

“registered medical practitioner” means a medical practitioner registered under the Medical Registration Act (Cap. 174), and

includes a dentist registered under the Dental Registration Act (Cap. 76);

[22/2007 wef 01/01/2008]

“Second Schedule biological agent” means any biological agent specified in the Second Schedule;

“Singapore Civil Defence Force” means the Singapore Civil Defence Force raised and maintained under the Civil Defence Act (Cap. 42);

“staff”, in relation to any facility, means —

- (a) any person employed at the facility to do any work under a contract of service;
- (b) any consultant assisting the operator of the facility in the carrying out of any activity involving any biological agent or toxin at the facility; and
- (c) any other person (including any student or intern) authorised by the operator of the facility to carry out any activity involving any biological agent or toxin at the facility;

“Third Schedule biological agent” means any biological agent specified in the Third Schedule;

“toxin” means any poisonous substance that is produced and extracted from any micro-organism;

“transferee”, in relation to any biological agent or toxin, means the person to whom the biological agent or toxin is provided;

“transferor”, in relation to any biological agent or toxin, means the person who provides the biological agent or toxin to another person;

“tranship” means to bring any goods into Singapore solely for the purpose of taking them out of Singapore, whether on the same conveyance on which they were brought into Singapore or on another conveyance, where the goods are landed and kept at any place in Singapore pending their being taken out of Singapore;

“uncertified facility” means a facility that is not certified under section 51.

PART II

ADMINISTRATION AND APPLICATION

Administration of Act

3.—(1) The Director shall, subject to any general or special directions of the Minister, be responsible for the administration of this Act.

(2) The Director may in writing appoint any public officer, officer of any statutory authority or any other person to be an enforcement officer for the purposes of this Act.

(3) Every enforcement officer, when exercising his powers and carrying out his duties under this Act, shall comply with such general or special directions as may, from time to time, be given to him by the Director.

(4) The Director may delegate all or any of the powers conferred on him by this Act to any enforcement officer, subject to such conditions or limitations as the Director may specify, except the power of delegation conferred by this subsection.

(5) The Director may establish one or more advisory committees consisting of such persons as he may appoint for the purpose of advising him on any matter arising out of the administration and enforcement of this Act.

Act not to apply in relation to use of biological agents or toxins for certain purposes

4.—(1) Subject to subsections (2) and (3), Parts III to VI, with the exception of section 41(e), shall not apply in relation to —

- (a) the disposal of any biological agent or toxin by a hazardous waste contractor;
- (b) the handling of any biological agent or toxin in the course of carrying out a diagnosis or an autopsy;

- (c) the collection of food samples or samples from the environment for the purpose of carrying out any laboratory analysis to determine or identify, for public health purposes, the nature of any biological agent or toxin that is present in such samples or in the environment from which such samples have been taken; or
- (d) the use or possession by any of the following persons of any finished cosmetic or medicinal product consisting of any toxin:
 - (i) any person lawfully manufacturing, supplying, selling or dispensing the finished cosmetic or medicinal product;
 - (ii) any registered medical practitioner using the finished cosmetic or medicinal product in the course of treating another person;
 - (iii) any person using the finished cosmetic or medicinal product for the cosmetic or medical purposes for which it is intended.

(2) Notwithstanding subsection (1), where any biological agent or toxin is provided to any person for any excluded purpose and the person uses the biological agent or toxin for any purpose other than an excluded purpose, this Act shall apply in relation to the possession and use of the biological agent or toxin by that person.

(3) Notwithstanding subsection (1), where any biological agent or toxin is provided to any person for any excluded purpose and the person transfers the biological agent or toxin to any other person for any purpose other than an excluded purpose, this Act shall apply in relation to the transfer and transportation of the biological agent or toxin to, and the possession and use of the biological agent or toxin by, that other person.

PART III

BIOLOGICAL AGENTS AND
INACTIVATED BIOLOGICAL AGENTS*Division 1 — General***Prohibition against use of biological agents for non-peaceful purpose, etc.**

5.—(1) No person shall —

- (a) use;
- (b) develop or produce;
- (c) acquire, stockpile, retain or possess; or
- (d) transfer to another person, whether directly or indirectly,

any biological agent for any non-peaceful purpose.

(2) Any person who contravenes subsection (1) —

- (a) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$1 million or to imprisonment for a term which may extend to life imprisonment or to both; and

- (b) may be arrested without warrant by a police officer or an enforcement officer.

Division 2 — First Schedule biological agents

Subdivision (1) — Possession and use

Prohibition against possession of First Schedule biological agents without approval

6.—(1) No person shall possess any First Schedule biological agent unless his possession of the First Schedule biological agent is authorised by and is in accordance with the conditions of an approval granted by the Director.

(2) Subject to subsection (3), for the purpose of subsection (1), no approval to possess a First Schedule biological agent shall be granted to any person unless —

- (a) he is the operator of a certified facility; and
- (b) where the biological agent is a First Schedule (Part II) biological agent, the facility is a protected place.

(3) Notwithstanding subsection (2)(a), the Director may grant an approval to possess a First Schedule biological agent to the operator of an uncertified facility if the Director is satisfied that any activity involving the use of the First Schedule biological agent will be carried out at such facility in a safe and proper manner.

(4) A person who has been granted an approval to possess a First Schedule biological agent shall keep or use the First Schedule biological agent only at the following places:

- (a) where he is the operator of a certified facility, at the certified facility specified in the approval to possess; and
- (b) where he is the operator of an uncertified facility, at such facility as may be specified in the approval to possess.

(5) Any person who —

- (a) possesses any First Schedule biological agent in contravention of subsection (1); or
- (b) keeps or uses such biological agent at any facility in contravention of subsection (4),

shall be guilty of an offence and shall be liable on conviction to be punished as follows:

- (i) in the case of a First Schedule (Part I) biological agent, with a fine not exceeding \$10,000 or with imprisonment for a term not exceeding 12 months or with both; and
- (ii) in the case of a First Schedule (Part II) biological agent, with a fine not exceeding \$100,000 or with imprisonment for a term not exceeding 10 years or with both.

(6) Where any person possesses any First Schedule biological agent in contravention of subsection (1) or keeps or uses such biological agent at any facility in contravention of subsection (4), the Director may order any one or more of the following:

- (a) the immediate cessation of any activity involving the First Schedule biological agent carried out by the person at the facility;
 - (b) the destruction of the First Schedule biological agent at the facility;
 - (c) the decontamination of the facility;
 - (d) the closure or cordoning off of the facility until such time as the Director is satisfied that the facility may safely resume operation;
 - (e) that any person who is or was at the facility (whether as a member of the staff of the facility or otherwise) and who may be or may have been exposed to the First Schedule biological agent at the facility should —
 - (i) undergo such medical examination and medical treatment at such place or hospital as the Director may specify in the order; or
 - (ii) be quarantined at such place and for such period as the Director may specify in the order.
- (7) Any person who contravenes any order made by the Director under subsection (6) shall be guilty of an offence and shall be liable on conviction to be punished as follows:
- (a) where the order has been made in relation to or in connection with a First Schedule (Part I) biological agent, with a fine not exceeding \$10,000 or with imprisonment for a term not exceeding 12 months or with both; and
 - (b) where the order has been made in relation to or in connection with a First Schedule (Part II) biological agent, with a fine not exceeding \$100,000 or with imprisonment for a term not exceeding 10 years or with both.
- (8) This section shall not apply to —
- (a) any person who has been engaged to transport any First Schedule biological agent within Singapore and whose possession of the First Schedule biological agent is merely

incidental to his transporting it in accordance with such engagement; or

(b) any person who has been engaged to store any First Schedule biological agent within Singapore pending —

(i) the delivery of the First Schedule biological agent to the person who has procured its import into Singapore; or

(ii) the exportation of the First Schedule biological agent from Singapore in the course of transshipment,

and whose possession of the First Schedule biological agent is merely incidental to his storing it in accordance with such engagement.

Prohibition against large-scale production of First Schedule biological agents without approval

7.—(1) No person shall carry out or procure any large-scale production of any First Schedule biological agent unless the large-scale production of the First Schedule biological agent —

(a) is authorised by an approval granted by the Director; and

(b) is carried out —

(i) at the facility specified in the approval; and

(ii) in accordance with the conditions of the approval.

(2) For the purposes of subsection (1), no approval to produce a First Schedule biological agent shall be granted to any person unless he has already been granted an approval to possess the First Schedule biological agent as referred to in section 6.

(3) Where any person produces any First Schedule biological agent at any facility in contravention of subsection (1) —

(a) he shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both; and

- (b) the Director may order any one or more of the following:
- (i) the immediate cessation of any activity involving the First Schedule biological agent carried out by the person at the facility;
 - (ii) the destruction of the First Schedule biological agent at the facility;
 - (iii) the decontamination of the facility;
 - (iv) the closure or cordoning off of the facility until such time as the Director is satisfied that the facility may safely resume operation;
 - (v) that any person who is or was at the facility (whether as a member of the staff of the facility or otherwise) and who may be or may have been exposed to the First Schedule biological agent at the facility should —
 - (A) undergo such medical examination and medical treatment at such place or hospital as the Director may specify in the order; or
 - (B) be quarantined at such place and for such period as the Director may specify in the order.

(4) Any person who contravenes any order made by the Director under subsection (3)(b) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both.

Subdivision (2) — Import and transhipment

Prohibition against import or transhipment of First Schedule biological agents without permit

8.—(1) No person shall import or procure the import of any First Schedule biological agent unless the import of the First Schedule biological agent is authorised by and is carried out in accordance with the conditions of a permit granted by the Director.

(2) No person shall tranship any First Schedule biological agent unless the transhipment of the First Schedule biological agent is authorised by and is carried out in accordance with the conditions of a permit granted by the Director.

(3) For the purposes of subsection (1), no permit to import a First Schedule biological agent shall be granted to any person unless he has already been granted an approval to possess the First Schedule biological agent as referred to in section 6.

(4) Every permit to import or tranship a First Schedule biological agent shall be valid only in respect of one consignment of the First Schedule biological agent for which an application for the permit has been made.

(5) Any person who contravenes subsection (1) shall be guilty of an offence and shall be liable on conviction to be punished as follows:

- (a) in the case of a First Schedule (Part I) biological agent, with a fine not exceeding \$10,000 or with imprisonment for a term not exceeding 12 months or with both; and
- (b) in the case of a First Schedule (Part II) biological agent, with a fine not exceeding \$100,000 or with imprisonment for a term not exceeding 10 years or with both.

Notification of failure of receipt of import

9.—(1) Every holder of a permit to import any First Schedule (Part II) biological agent shall immediately notify the Director, in such form and manner as the Director may require, in the event he fails to receive the consignment of the First Schedule (Part II) biological agent to which the permit to import relates.

(2) For the purposes of subsection (1), the holder of the permit to import shall be deemed to have failed to receive the consignment of the First Schedule (Part II) biological agent to which the permit to import relates if he does not receive the consignment within 24 hours of such time as may be reasonably estimated by him for the receipt.

(3) Any person who fails to comply with subsection (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000.

Storage of First Schedule biological agents upon import or pending transshipment

10.—(1) Where any First Schedule biological agent that has been imported into Singapore is required to be stored temporarily at any place before it is delivered to the facility for which it is destined, the person to whom the permit to import the First Schedule biological agent has been granted shall ensure that the First Schedule biological agent is stored at a place which is safe and secure, and that the storage at such place is carried out in accordance with such requirements as may be prescribed.

(2) Where any First Schedule biological agent that is being transhipped through Singapore is required to be landed and stored temporarily at any place before it is delivered to the conveyance on which it will be taken out of Singapore, the person to whom the permit to tranship the First Schedule biological agent has been granted shall ensure that the First Schedule biological agent is stored at a place which is safe and secure, and that the storage at such place is carried out in accordance with such requirements as may be prescribed.

(3) Where a holder of a permit to import or tranship any First Schedule biological agent stores the biological agent in contravention of subsection (1) or (2), as the case may be —

- (a) he shall be guilty of an offence and shall be liable on conviction to be punished as follows:
 - (i) in the case of a First Schedule (Part I) biological agent, with a fine not exceeding \$10,000 or with imprisonment for a term not exceeding 12 months or with both; and
 - (ii) in the case of a First Schedule (Part II) biological agent, with a fine not exceeding \$100,000 or with imprisonment for a term not exceeding 10 years or with both; and
- (b) the Director may order the holder of the permit, at his own expense, to do any one or more of the following:

- (i) take such measures as the Director may specify to ensure that the First Schedule biological agent is properly stored;
- (ii) destroy the First Schedule biological agent;
- (iii) decontaminate the place at which the First Schedule biological agent was stored in contravention of subsection (1) or (2).

(4) Any holder of a permit to import any First Schedule biological agent and any holder of a permit to tranship any First Schedule biological agent who contravenes any order made by the Director under subsection (3)(b) shall be guilty of an offence and shall be liable on conviction to be punished as follows:

- (a) where the order has been made in relation to or in connection with a First Schedule (Part I) biological agent, with a fine not exceeding \$10,000 or with imprisonment for a term not exceeding 12 months or with both; and
- (b) where the order has been made in relation to or in connection with a First Schedule (Part II) biological agent, with a fine not exceeding \$100,000 or with imprisonment for a term not exceeding 10 years or with both.

Subdivision (3) — Transfer

Prohibition against transfers of First Schedule biological agents except by certain persons

11.—(1) Subject to subsection (2), no person shall transfer any First Schedule biological agent unless —

- (a) he has an approval to possess the First Schedule biological agent as referred to in section 6; and
- (b) the transferee —
 - (i) has also been granted an approval to possess the First Schedule biological agent as referred to in section 6; or

(ii) is outside Singapore.

(2) No person to whom any First Schedule biological agent has been provided for any excluded purpose shall transfer the First Schedule biological agent to any other person for any purpose other than an excluded purpose unless the transferee —

(a) has been granted an approval to possess the First Schedule biological agent as referred to in section 6; or

(b) is outside Singapore.

(3) Any transferor who transfers any First Schedule biological agent to any transferee in Singapore, knowing or having reason to believe that such transferee does not have an approval to possess the First Schedule biological agent as referred to in section 6, shall be guilty of an offence and shall be liable on conviction to be punished as follows:

(a) where the biological agent is a First Schedule (Part I) biological agent, with a fine not exceeding \$10,000 or with imprisonment for a term not exceeding 12 months or with both; and

(b) where the biological agent is a First Schedule (Part II) biological agent, with a fine not exceeding \$100,000 or with imprisonment for a term not exceeding 10 years or with both.

Notifications relating to transfers of First Schedule biological agents

12.—(1) Any transferor who wishes to transfer any First Schedule (Part II) biological agent to a transferee shall notify —

(a) the Director of the proposed transfer within such time and in such form and manner as the Director may require;

(b) the transferee of an estimated time of receipt by the transferee of the biological agent being transferred; and

(c) the carrier of the biological agent (where he is not the transferor or transferee) prior to the despatch of the

biological agent of a 24-hour emergency number that is monitored at all times by a person who —

- (i) has knowledge of the hazards and characteristics of the biological agent being transported; or
- (ii) has immediate access to a person who possesses such knowledge and information.

(2) Where a transferee fails to receive any First Schedule (Part II) biological agent which is being transferred to him, the transferee shall immediately notify the Director, in such form and manner as the Director may require, of the failure of receipt.

(3) For the purposes of subsection (2), a transferee shall be deemed to have failed to receive the First Schedule (Part II) biological agent which is being transferred to him if he does not receive the biological agent within 24 hours of the estimated time of receipt of the biological agent provided by the transferor.

(4) Any person who contravenes subsection (1) or (2) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000.

Subdivision (4) — Transportation

Prohibition against transportation by certain means

13.—(1) No person shall transport or procure the transportation of any First Schedule biological agent within Singapore by mail or public transportation.

(2) Any person who contravenes subsection (1) shall be guilty of an offence and shall be liable on conviction to be punished as follows:

- (a) where the biological agent is a First Schedule (Part I) biological agent, with a fine not exceeding \$10,000 or with imprisonment for a term not exceeding 12 months or with both; and
- (b) where the biological agent is a First Schedule (Part II) biological agent, with a fine not exceeding \$100,000 or with imprisonment for a term not exceeding 10 years or with both.

Division 3 — Second Schedule biological agents

Subdivision (1) — Possession and use

Prohibition against use of Second Schedule biological agents without special approval

14.—(1) No person shall use any Second Schedule biological agent for any purpose unless the use of the Second Schedule biological agent is authorised by and is carried out in accordance with the conditions of a special approval to handle the Second Schedule biological agent granted by the Director.

(2) No special approval to handle any Second Schedule biological agent shall be granted to any person unless the Director is satisfied that —

- (a) the use for which the person requires the Second Schedule biological agent is necessary in the public interest; and
- (b) the person who requires the Second Schedule biological agent has put in place adequate measures to contain the risks to public health and security posed by the Second Schedule biological agent.

(3) Any person who contravenes subsection (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both.

(4) This section shall not apply to —

- (a) any person who has been engaged to transport any Second Schedule biological agent within Singapore and whose possession of the Second Schedule biological agent is merely incidental to his transporting it in accordance with such engagement; or
- (b) any person who has been engaged to store any Second Schedule biological agent within Singapore pending —
 - (i) the delivery of the Second Schedule biological agent to the person who has procured its import into Singapore; or

- (ii) the exportation of the Second Schedule biological agent from Singapore in the course of transshipment, and whose possession of the Second Schedule biological agent is merely incidental to his storing it in accordance with such engagement.

Prohibition against possession of Second Schedule biological agents without approval

15.—(1) No person shall possess any Second Schedule biological agent unless his possession of the Second Schedule biological agent is authorised by and is in accordance with the conditions of an approval granted by the Director.

(2) For the purposes of subsection (1), no approval to possess a Second Schedule biological agent shall be granted to any person unless he —

- (a) is the operator of a certified facility which is a protected place; and
- (b) has been granted a special approval to handle the Second Schedule biological agent as referred to in section 14.

(3) A person who has been granted an approval to possess a Second Schedule biological agent shall keep or use the Second Schedule biological agent only at the certified facility specified in the approval to possess.

(4) Any person who —

- (a) possesses any Second Schedule biological agent in contravention of subsection (1); or
- (b) keeps or uses such biological agent at any facility in contravention of subsection (3),

shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both.

(5) Where any person possesses any Second Schedule biological agent in contravention of subsection (1) or keeps or uses such

biological agent at any facility in contravention of subsection (3), the Director may order any one or more of the following:

- (a) the immediate cessation of any activity involving the Second Schedule biological agent carried out by the person at the facility;
- (b) the destruction of the Second Schedule biological agent at the facility;
- (c) the decontamination of the facility;
- (d) the closure or cordoning off of the facility until such time as the Director is satisfied that the facility may safely resume operation;
- (e) that any person who is or was at the facility (whether as a member of the staff of the facility or otherwise) and who may be or may have been exposed to the Second Schedule biological agent at the facility should —
 - (i) undergo such medical examination and medical treatment at such place or hospital as the Director may specify in the order; or
 - (ii) be quarantined at such place and for such period as the Director may specify in the order.

(6) Any person who contravenes any order made by the Director under subsection (5) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both.

(7) This section shall not apply to —

- (a) any person who has been engaged to transport any Second Schedule biological agent within Singapore and whose possession of the Second Schedule biological agent is merely incidental to his transporting it in accordance with such engagement; or
- (b) any person who has been engaged to store any Second Schedule biological agent within Singapore pending —

- (i) the delivery of the Second Schedule biological agent to the person who has procured its import into Singapore; or
- (ii) the exportation of the Second Schedule biological agent from Singapore in the course of transshipment, and whose possession of the Second Schedule biological agent is merely incidental to his storing it in accordance with such engagement.

Prohibition against large-scale production of Second Schedule biological agents

16.—(1) No person shall carry out or procure any large-scale production of any Second Schedule biological agent.

(2) Where any person produces any Second Schedule biological agent at any facility in contravention of subsection (1) —

- (a) he shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both; and
- (b) the Director may order any one or more of the following:
 - (i) the immediate cessation of any activity involving the Second Schedule biological agent carried out by the person at the facility;
 - (ii) the destruction of the Second Schedule biological agent at the facility;
 - (iii) the decontamination of the facility;
 - (iv) the closure or cordoning off of the facility until such time as the Director is satisfied that the facility may safely resume operation;
 - (v) that any person who is or was at the facility (whether as a member of the staff of the facility or otherwise) and who may be or may have been exposed to the Second Schedule biological agent at the facility should —

- (A) undergo such medical examination and medical treatment at such place or hospital as the Director may specify in the order; or
- (B) be quarantined at such place and for such period as the Director may specify in the order.

(3) Any person who contravenes any order made by the Director under subsection (2)(b) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$1 million or to imprisonment for a term which may extend to life imprisonment or to both.

Subdivision (2) — Import and transhipment

Prohibition against import or transhipment of Second Schedule biological agents without permit

17.—(1) No person shall import or procure the import of any Second Schedule biological agent unless the import of the Second Schedule biological agent is authorised by and is carried out in accordance with the conditions of a permit granted by the Director.

(2) No person shall tranship any Second Schedule biological agent unless the transhipment of the Second Schedule biological agent is authorised by and is carried out in accordance with the conditions of a permit granted by the Director.

(3) For the purposes of subsection (1), no permit to import a Second Schedule biological agent shall be granted to any person unless he has already been granted an approval to possess the Second Schedule biological agent as referred to in section 15.

(4) Every permit to import or tranship a Second Schedule biological agent shall be valid only in respect of one consignment of the Second Schedule biological agent for which an application for the permit has been made.

(5) Any person who contravenes subsection (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both.

Notification of failure of receipt of import

18.—(1) Every holder of a permit to import any Second Schedule biological agent shall immediately notify the Director, in such form and manner as the Director may require, in the event he fails to receive the consignment of the Second Schedule biological agent to which the permit to import relates.

(2) For the purposes of subsection (1), the holder of the permit to import shall be deemed to have failed to receive the consignment of the Second Schedule biological agent to which the permit to import relates if he does not receive the consignment within 24 hours of such time as may be reasonably estimated by him for the receipt.

(3) Any person who fails to comply with subsection (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000.

Storage of Second Schedule biological agents upon import or pending transhipment

19.—(1) Where any Second Schedule biological agent that has been imported into Singapore is required to be stored temporarily at any place before it is delivered to the facility for which it is destined, the person to whom the permit to import the Second Schedule biological agent has been granted shall ensure that the Second Schedule biological agent is stored at a place which is safe and secure, and that the storage at such place is carried out in accordance with such requirements as may be prescribed.

(2) Where any Second Schedule biological agent that is being transhipped through Singapore is required to be landed and stored temporarily at any place before it is delivered to the conveyance on which it will be taken out of Singapore, the person to whom the permit to tranship the Second Schedule biological agent has been granted shall ensure that the Second Schedule biological agent is stored at a place which is safe and secure, and that the storage at such place is carried out in accordance with such requirements as may be prescribed.

(3) Where a holder of a permit to import or tranship any Second Schedule biological agent stores the biological agent in contravention of subsection (1) or (2), as the case may be —

- (a) he shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both; and
- (b) the Director may order the holder of the permit, at his own expense, to do any one or more of the following:
 - (i) take such measures as the Director may specify to ensure that the Second Schedule biological agent is properly stored;
 - (ii) destroy the Second Schedule biological agent;
 - (iii) decontaminate the place at which the Second Schedule biological agent was stored in contravention of subsection (1) or (2).

(4) Any holder of a permit to import any Second Schedule biological agent and any holder of a permit to tranship any Second Schedule biological agent who contravenes any order made by the Director under subsection (3)(b) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both.

Subdivision (3) — Transfer

Prohibition against transfers of Second Schedule biological agents except by certain persons

20.—(1) Subject to subsection (2), no person shall transfer any Second Schedule biological agent unless —

- (a) he has an approval to possess the Second Schedule biological agent as referred to in section 15; and

(b) the transferee —

(i) has also been granted an approval to possess the Second Schedule biological agent as referred to in section 15; or

(ii) is outside Singapore.

(2) No person to whom any Second Schedule biological agent has been provided for any excluded purpose shall transfer the Second Schedule biological agent to any other person for any purpose unless the transferee —

(a) has been granted an approval to possess the Second Schedule biological agent as referred to in section 15; or

(b) is outside Singapore.

(3) Any transferor who transfers any Second Schedule biological agent to any transferee in Singapore, knowing or having reason to believe that such transferee does not have an approval to possess the Second Schedule biological agent as referred to in section 15, shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both.

Notifications relating to transfers of Second Schedule biological agents

21.—(1) Any transferor who wishes to transfer any Second Schedule biological agent to a transferee shall notify —

(a) the Director of the proposed transfer within such time and in such form and manner as the Director may require;

(b) the transferee of an estimated time of receipt by the transferee of the biological agent being transferred; and

(c) the carrier of the biological agent (where he is not the transferor or transferee) prior to the despatch of the biological agent of a 24-hour emergency number that is monitored at all times by a person who —

- (i) has knowledge of the hazards and characteristics of the biological agent being transported; or
- (ii) has immediate access to a person who possesses such knowledge and information.

(2) Where a transferee fails to receive any Second Schedule biological agent which is being transferred to him, the transferee shall immediately notify the Director, in such form and manner as the Director may require, of the failure of receipt.

(3) For the purposes of subsection (2), a transferee shall be deemed to have failed to receive the Second Schedule biological agent which is being transferred to him if he does not receive the biological agent within 24 hours of the estimated time of receipt of the biological agent provided by the transferor.

(4) Any person who contravenes subsection (1) or (2) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000.

Subdivision (4) — Transportation

Prohibition against transportation by certain means

22.—(1) No person shall transport or procure the transportation of any Second Schedule biological agent within Singapore by mail or public transportation.

(2) Any person who contravenes subsection (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both.

Division 4 — Third Schedule biological agents

Prohibition against large-scale production of Third Schedule biological agents without approval

23.—(1) No person shall carry out or procure any large-scale production of any Third Schedule biological agent unless the large-scale production of the Third Schedule biological agent —

- (a) is authorised by an approval granted by the Director; and

(b) is carried out —

- (i) at the facility specified in the approval; and
- (ii) in accordance with the conditions of the approval.

(2) Where any person produces any Third Schedule biological agent at any facility in contravention of subsection (1), the Director may order any one or more of the following:

- (a) the immediate cessation of any activity involving the Third Schedule biological agent carried out by the person at the facility;
- (b) the destruction of the Third Schedule biological agent at the facility;
- (c) the decontamination of the facility;
- (d) the closure or cordoning off of the facility until such time as the Director is satisfied that the facility may safely resume operation;
- (e) that any person who is or was at the facility (whether as a member of the staff of the facility or otherwise) and who may be or may have been exposed to the Third Schedule biological agent at the facility should —
 - (i) undergo such medical examination and medical treatment at such place or hospital as the Director may specify in the order; or
 - (ii) be quarantined at such place and for such period as the Director may specify in the order.

(3) Any person who contravenes any order made by the Director under subsection (2) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000 or to imprisonment for a term not exceeding 12 months or to both.

Prohibition against transportation by certain means

24.—(1) No person shall transport or procure the transportation of any Third Schedule biological agent within Singapore by mail or public transportation.

(2) Any person who contravenes subsection (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000 or to imprisonment for a term not exceeding 12 months or to both.

Division 5 — Fourth Schedule biological agents

Prohibition against import of Fourth Schedule biological agents without permit

25.—(1) No person shall import or procure the import of any Fourth Schedule biological agent unless the import of the Fourth Schedule biological agent is authorised by and is carried out in accordance with the conditions of a permit granted by the Director.

(2) Every permit to import a Fourth Schedule biological agent shall be valid only in respect of one consignment of the Fourth Schedule biological agent for which an application for a permit to import has been made.

(3) Any person who contravenes subsection (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$5,000 or to imprisonment for a term not exceeding 6 months or to both.

Prohibition against transportation by certain means

26.—(1) No person shall transport or procure the transportation of any Fourth Schedule biological agent within Singapore by mail or public transportation.

(2) Any person who contravenes subsection (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$5,000 or to imprisonment for a term not exceeding 6 months or to both.

Division 6 — Inactivated biological agents

Prohibition against inactivation of biological agents

27.—(1) No person shall inactivate or procure the inactivation of any First Schedule biological agent or Second Schedule biological agent unless —

- (a) he has been granted an approval to possess the First Schedule biological agent as referred to in section 6, or an approval to possess the Second Schedule biological agent as referred to in section 15 (as the case may be); and
- (b) the inactivation of the biological agent is carried out —
 - (i) in accordance with such method as may be approved by his biosafety committee; and
 - (ii) at the facility specified in his approval to possess the First Schedule biological agent or Second Schedule biological agent.

(2) Subsection (1) shall not apply insofar as the inactivation relates to the decontamination of any First Schedule biological agent waste or Second Schedule biological agent waste.

(3) Where any person has inactivated or attempted to inactivate any First Schedule biological agent or Second Schedule biological agent at any facility in contravention of subsection (1) (whether or not the inactivation is successful), the Director may order any one or more of the following:

- (a) the immediate cessation of any activity involving that First Schedule biological agent or Second Schedule biological agent carried out by the person at the facility;
- (b) the destruction of that First Schedule biological agent or Second Schedule biological agent at the facility;
- (c) the decontamination of the facility;
- (d) the closure or cordoning off of the facility until such time as the Director is satisfied that the facility may safely resume operation;
- (e) that any person who is or was at the facility (whether as a member of the staff of the facility or otherwise) and who may be or may have been exposed to that First Schedule biological agent or Second Schedule biological agent at the facility should —

- (i) undergo such medical examination and medical treatment at such place or hospital as the Director may specify in the order; or
- (ii) be quarantined at such place and for such period as the Director may specify in the order.

(4) Any person who contravenes any order made by the Director under subsection (3) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$5,000 or to imprisonment for a term not exceeding 6 months or to both.

Prohibition against import of inactivated biological agents without permit

28.—(1) No person shall import or procure the import of —

- (a) any inactivated First Schedule biological agent; or
- (b) any inactivated Second Schedule biological agent,

for any purpose unless the import of the inactivated First Schedule biological agent or inactivated Second Schedule biological agent (as the case may be) is authorised by and is carried out in accordance with the conditions of a permit granted by the Director.

(2) The Director shall not grant any permit to import any inactivated First Schedule biological agent or any inactivated Second Schedule biological agent to any person unless the Director is satisfied that the biological agent has been properly inactivated.

(3) Without prejudice to section 50, for the purpose of satisfying himself that any First Schedule biological agent or Second Schedule biological agent has been properly inactivated, the Director may require an applicant for a permit to import to provide such information relating to —

- (a) the person by whom the inactivation of the First Schedule biological agent or Second Schedule biological agent (as the case may be) has been carried out; and
- (b) the method of the inactivation used and its efficacy.

(4) Every permit to import an inactivated First Schedule biological agent or an inactivated Second Schedule biological agent shall entitle

the holder of the permit to import from the person referred to in subsection (3)(a) any number of consignments of the inactivated First Schedule biological agent or the inactivated Second Schedule biological agent, as specified in the permit, which has been so inactivated using the method referred to in subsection (3)(b).

(5) Any person who contravenes subsection (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$5,000 or to imprisonment for a term not exceeding 6 months or to both.

Prohibition against transportation by certain means

29.—(1) No person shall transport or procure the transportation of any inactivated First Schedule biological agent or any inactivated Second Schedule biological agent within Singapore by mail or public transportation.

(2) Any person who contravenes subsection (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$5,000 or to imprisonment for a term not exceeding 6 months or to both.

PART IV

TOXINS

Division 1 — General

Prohibition against use of toxins for non-peaceful purpose, etc.

30.—(1) No person shall —

- (a) use;
- (b) develop or produce;
- (c) acquire, stockpile, retain or possess; or
- (d) transfer to another person, whether directly or indirectly,

any toxin for any non-peaceful purpose.

- (2) Any person who contravenes subsection (1) —
- (a) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$1 million or to imprisonment for a term which may extend to life imprisonment or to both; and
 - (b) may be arrested without warrant by a police officer or an enforcement officer.

Division 2 — Possession and use

Prohibition against possession of Fifth Schedule toxins without approval

31.—(1) No person shall possess any Fifth Schedule toxin unless his possession of the Fifth Schedule toxin is authorised by and is in accordance with the conditions of an approval granted by the Director.

(2) For the purpose of subsection (1), no approval to possess a Fifth Schedule toxin shall be granted to any person unless he is the operator of a facility which is a protected place.

(3) A person who has been granted an approval to possess a Fifth Schedule toxin shall keep or use the Fifth Schedule toxin only at such facility as may be specified in the approval to possess.

(4) Where any person possesses any Fifth Schedule toxin in contravention of subsection (1) or keeps or uses any Fifth Schedule toxin at any facility in contravention of subsection (3) —

- (a) he shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both; and
- (b) the Director may order any one or more of the following:
 - (i) the immediate cessation of any activity involving the Fifth Schedule toxin carried out by the person at the facility;
 - (ii) the destruction of the Fifth Schedule toxin at the facility;

- (iii) the decontamination of the facility;
- (iv) the closure or cordoning off of the facility until such time as the Director is satisfied that the facility may safely resume operation;
- (v) that any person who is or was at the facility (whether as a member of the staff of the facility or otherwise) and who may be or may have been exposed to the Fifth Schedule toxin at the facility should —
 - (A) undergo such medical examination and medical treatment at such place or hospital as the Director may specify in the order; or
 - (B) be quarantined at such place and for such period as the Director may specify in the order.

(5) Any person who contravenes any order made by the Director under subsection (4)(b) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both.

(6) This section shall not apply to —

- (a) any person who has been engaged to transport any Fifth Schedule toxin within Singapore and whose possession of the Fifth Schedule toxin is merely incidental to his transporting it in accordance with such engagement; or
- (b) any person who has been engaged to store any Fifth Schedule toxin within Singapore pending —
 - (i) the delivery of the Fifth Schedule toxin to the person who has procured its import into Singapore; or
 - (ii) the exportation of the Fifth Schedule toxin from Singapore in the course of transshipment,and whose possession of the Fifth Schedule toxin is merely incidental to his storing it in accordance with such engagement.

*Division 3 — Import and transhipment***Prohibition against import or transhipment of Fifth Schedule toxins without permit**

32.—(1) No person shall import or procure the import of any Fifth Schedule toxin unless the import of the Fifth Schedule toxin is authorised by and is carried out in accordance with the conditions of a permit granted by the Director.

(2) No person shall tranship any Fifth Schedule toxin unless the transhipment of the Fifth Schedule toxin is authorised by and is carried out in accordance with the conditions of a permit granted by the Director.

(3) For the purposes of subsection (1), no permit to import a Fifth Schedule toxin shall be granted to any person unless he has already been granted an approval to possess the Fifth Schedule toxin as referred to in section 31.

(4) Every permit to import or tranship a Fifth Schedule toxin shall be valid only in respect of one consignment of the Fifth Schedule toxin for which an application for the permit has been made.

(5) Any person who contravenes subsection (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both.

Notification of failure of receipt of import

33.—(1) Every holder of a permit to import any Fifth Schedule toxin shall immediately notify the Director, in such form and manner as the Director may require, in the event he fails to receive the consignment of the Fifth Schedule toxin to which the permit to import relates.

(2) For the purposes of subsection (1), the holder of the permit to import shall be deemed to have failed to receive the consignment of the Fifth Schedule toxin to which the permit to import relates if he does not receive the consignment within 24 hours of such time as may be reasonably estimated by him for the receipt.

(3) Any person who fails to comply with subsection (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000.

Storage of Fifth Schedule toxins upon import or pending transhipment

34.—(1) Where any Fifth Schedule toxin that has been imported into Singapore is required to be stored temporarily at any place before it is delivered to the facility for which it is destined, the person to whom the permit to import the Fifth Schedule toxin has been granted shall ensure that the Fifth Schedule toxin is stored at a place which is safe and secure, and that the storage at such place is carried out in accordance with such requirements as may be prescribed.

(2) Where any Fifth Schedule toxin that is being transhipped through Singapore is required to be landed and stored temporarily at any place before it is delivered to the conveyance on which it will be taken out of Singapore, the person to whom the permit to tranship the Fifth Schedule toxin has been granted shall ensure that the Fifth Schedule toxin is stored at a place which is safe and secure, and that the storage at such place is carried out in accordance with such requirements as may be prescribed.

(3) Where a holder of a permit to import or tranship any Fifth Schedule toxin stores the toxin in contravention of subsection (1) or (2), as the case may be —

- (a) he shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both; and
- (b) the Director may order the holder of the permit, at his own expense, to do any one or more of the following:
 - (i) take such measures as the Director may specify to ensure that the Fifth Schedule toxin is properly stored;
 - (ii) destroy the Fifth Schedule toxin;

- (iii) decontaminate the place at which the Fifth Schedule toxin was stored in contravention of subsection (1) or (2).

(4) Any holder of a permit to import any Fifth Schedule toxin and any holder of a permit to tranship any Fifth Schedule toxin who contravenes any order made by the Director under subsection (3)(b) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both.

Division 4 — Transfer

Prohibition against transfers of Fifth Schedule toxins except by certain persons

35.—(1) Subject to subsection (2), no person shall transfer any Fifth Schedule toxin unless —

- (a) he has an approval to possess the Fifth Schedule toxin as referred to in section 31; and
- (b) the transferee —
 - (i) has also been granted an approval to possess the Fifth Schedule toxin as referred to in section 31; or
 - (ii) is outside Singapore.

(2) No person to whom any Fifth Schedule toxin has been provided for any excluded purpose shall transfer the Fifth Schedule toxin to any other person for any purpose other than an excluded purpose unless the transferee —

- (a) has been granted an approval to possess the Fifth Schedule toxin as referred to in section 31; or
- (b) is outside Singapore.

(3) Any transferor who transfers any Fifth Schedule toxin to any transferee in Singapore, knowing or having reason to believe that such transferee does not have an approval to possess the Fifth Schedule toxin as referred to in section 31, shall be guilty of an offence and shall

be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both.

Notifications relating to transfers of Fifth Schedule toxins

36.—(1) Any transferor who wishes to transfer any Fifth Schedule toxin to a transferee shall notify —

- (a) the Director of the proposed transfer within such time and in such form and manner as the Director may require;
- (b) the transferee of an estimated time of receipt by the transferee of the toxin being transferred; and
- (c) the carrier of the toxin (where he is not the transferor or transferee) prior to the despatch of the toxin of a 24-hour emergency number that is monitored at all times by a person who —
 - (i) has knowledge of the hazards and characteristics of the toxin being transported; or
 - (ii) has immediate access to a person who possesses such knowledge and information.

(2) Where a transferee fails to receive any Fifth Schedule toxin which is being transferred to him, the transferee shall immediately notify the Director, in such form and manner as the Director may require, of the failure of receipt.

(3) For the purposes of subsection (2), a transferee shall be deemed to have failed to receive the Fifth Schedule toxin which is being transferred to him if he does not receive the toxin within 24 hours of the estimated time of receipt of the toxin provided by the transferor.

(4) Any person who contravenes subsection (1) or (2) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000.

*Division 5 — Transportation***Prohibition against transportation by certain means**

37.—(1) No person shall transport or procure the transportation of any Fifth Schedule toxin within Singapore by mail or public transportation.

(2) Any person who contravenes subsection (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both.

PART V

DUTIES AND OBLIGATIONS
IN RELATION TO BIOLOGICAL AGENTS
AND TOXINS*Division 1 — Duties and obligations of operators,
biosafety committees, biosafety co-ordinators
and staff of facilities***Application**

38.—(1) Except as otherwise specified, the duties and obligations specified in this Division shall apply to the operator of a facility who has been granted —

- (a) an approval to possess any First Schedule biological agent or Second Schedule biological agent;
- (b) an approval to produce on a large scale any First Schedule biological agent or Third Schedule biological agent; or
- (c) an approval to possess any Fifth Schedule toxin,

in relation to or in connection with the possession or production allowed by such approval.

(2) In this Division —

“biological agent” means —

- (a) any First Schedule biological agent;

- (b) any Second Schedule biological agent; or
- (c) any Third Schedule biological agent produced on a large scale;

“toxin” means any Fifth Schedule toxin.

Appointment of biosafety committee and biosafety co-ordinator

39.—(1) Every operator of a facility shall, in accordance with such requirements as may be prescribed —

- (a) appoint a biosafety committee comprising the persons specified in the Sixth Schedule; and
- (b) appoint a biosafety co-ordinator.

(2) The biosafety co-ordinator of a facility shall undergo such training as the Director may from time to time require.

(3) Subject to subsection (4), every operator of a facility shall, before carrying out any of the following activities at the facility, obtain the advice of the biosafety committee as to the safety measures required for the carrying out of that activity:

- (a) any activity involving any biological agent or toxin;
- (b) the inactivation of any biological agent.

(4) Nothing in subsection (3) shall require the operator of a facility to obtain the advice of the biosafety committee in respect of an activity which the operator proposes to carry out at the facility if the proposed activity is of the same type and is to be carried out in the same manner as an activity in respect of which the operator had previously obtained the advice of the biosafety committee in accordance with that subsection and which had been carried out safely.

(5) In order to properly advise the operator of a facility as to the safety measures required for the carrying out of any activity referred to in subsection (3) at the facility, the biosafety committee shall —

- (a) conduct risk assessments in relation to the activity proposed to be carried out;
- (b) devise such measures for the management of the risks that may arise from the proposed activity; and

- (c) formulate such other policies, programmes and codes of practice as may be necessary for —
 - (i) the proposed activity to be carried out safely at the facility; and
 - (ii) the training of staff who will be involved in the carrying out of the proposed activity.

(6) An operator of a facility shall not commence or allow the commencement of any activity involving any biological agent or toxin at the facility unless —

- (a) the biosafety committee has determined that the proposed activity may be carried out safely at the facility;
- (b) the biosafety co-ordinator has implemented the measures, policies, programmes and codes of practice as devised or formulated by the biosafety committee under subsection (5); and
- (c) where the proposed activity involves the use of any biological agent inactivated at the facility, the biosafety committee has verified that the biological agent has been properly inactivated.

(7) The biosafety committee shall review every 2 years or earlier, as may be appropriate, all measures, policies, programmes and codes of practice devised or formulated by it under subsection (5), and shall immediately inform the operator of the facility of any change to such measures, policies, programmes and codes of practice as the biosafety committee thinks necessary.

(8) Where the biosafety committee has proposed changes to any existing measure, policy, programme or code of practice —

- (a) the biosafety co-ordinator of the facility shall implement such changes as soon as possible within the timeframe stipulated by the biosafety committee; and
- (b) the operator of the facility shall, if so advised by the biosafety committee, discontinue the activity to which the changes relate until such time as the biosafety co-ordinator has implemented those changes.

Maintaining facilities and equipment

- 40.** Every operator of a facility shall —
- (a) ensure that the facility is appropriate for its purpose and complies with such requirements as may be prescribed;
 - (b) maintain the facility, and any equipment therein, in an optimal and a safe working condition;
 - (c) establish and implement adequate security systems to control access to the facility itself, to those parts of the facility where the biological agents or toxins are kept or handled, and to such biological agents or toxins themselves;
 - (d) ensure that the biohazard sign set out in the Seventh Schedule is prominently displayed at every door leading into the facility; and
 - (e) implement a pest control programme within the facility.

Activities and staff

- 41.** Every operator of a facility shall —
- (a) ensure that proper assessments of risk, management of risk, operational monitoring, supervision and review of the storage of or activities involving biological agents or toxins at the facility are carried out;
 - (b) ensure that the storage of or activities involving biological agents are carried out at an appropriate biosafety level at the facility and in accordance with such requirements as may be prescribed;
 - (c) ensure that no research, teaching or operational activity involving biological agents or toxins at the facility is undertaken until a risk assessment of the activity is conducted by the biosafety committee and it is demonstrated that any hazard that may arise from the activity can be controlled;
 - (d) ensure that emergencies arising from any storage of or activity involving biological agents or toxins carried out at

the facility are dealt with in accordance with appropriate procedures;

- (e) ensure that no biological agent, toxin or waste which contains a biological agent or toxin is discharged into the environment without the appropriate decontamination and ensure that such waste is lawfully discharged and disposed of;
- (f) ensure that activities involving biological agents or toxins are conducted by staff of the facility who are properly trained to conduct such activities, or conducted under the supervision of such persons;
- (g) ensure that all staff of the facility receive such training as may be required by the Director;
- (h) ensure that all staff of the facility are properly protected against any risk of exposure to any biological agent or toxin, including —
 - (i) ensuring that all staff of the facility are appropriately attired;
 - (ii) ensuring that all staff of the facility adhere to safe working practices and techniques;
 - (iii) making available to all staff of the facility the appropriate vaccination or prophylaxis; and
 - (iv) ensuring that all staff of the facility are not exposed to hazards arising out of the use, handling, transport or storage of any biological agent or toxin; and
- (i) establish a health and medical surveillance system for the staff of the facility so that any member of the staff who has been infected by or who has been exposed to any biological agent or toxin in the course of carrying out any activity involving biological agents or toxins may be expeditiously identified and treated.

Visitors

42.—(1) Where a person who is not a member of the staff of a facility is required to carry out any work at the facility, the operator of the facility shall ensure that that person is made aware of the biological hazards associated with the storage of and activities involving biological agents and toxins carried out at the facility.

(2) Subject to subsection (3), where a person who is not a member of the staff of a facility is required to enter any part of the facility where there is a risk of exposure to biological agents or toxins, the operator of the facility shall ensure that that person —

(a) is accompanied by a member of the staff of the facility —

(i) when he enters the facility;

(ii) when he leaves the facility; and

(iii) for such time that he is in the facility as the operator of the facility thinks necessary; and

(b) is properly protected against any risk of exposure to such biological agent or toxin at the facility.

(3) Where a person who is not a member of the staff of a facility is required to enter the facility at which any First Schedule (Part II) biological agent or Second Schedule biological agent is kept, the operator of the facility shall ensure that that person —

(a) is accompanied by a member of the staff of the facility at all times and in all parts of the facility; and

(b) is properly protected against any risk of exposure to such biological agent at the facility.

Use of animals

43. Every operator of a facility who uses any animal for experimentation involving biological agents or toxins at his facility shall comply with such requirements as may be prescribed in relation to animal containment.

Records and reporting requirements

44. Every operator of a facility shall —

- (a) maintain an inventory of all biological agents and toxins at the facility, which shall include records of the following:
 - (i) the storage location of the biological agents and toxins;
 - (ii) the personnel having approval to access any of the biological agents and toxins, and the biological agents and toxins to which such approval relates;
 - (iii) the use to which the biological agents or toxins are to be and have been put;
 - (iv) the transfers of the biological agents and toxins within the facility and between the facility and any other facility;
 - (v) the inactivation of the biological agents;
 - (vi) the disposal of the biological agents and toxins; and
 - (vii) where the biological agents and toxins are First Schedule (Part II) biological agents, Second Schedule biological agents or Fifth Schedule toxins —
 - (A) the personnel who have dealt with the biological agents or toxins; and
 - (B) the personnel who have entered the area where the biological agents or toxins are used or stored;
- (b) maintain a record of all visitors to the facility; and
- (c) report immediately to the Director in such form and manner as the Director may require —
 - (i) all confirmed or suspected infections or illnesses acquired by any member of the staff of the facility in the course of carrying out any activity involving biological agents or toxins at the facility;

- (ii) all adverse incidents involving biological agents that may potentially cause transmission of any infectious disease;
- (iii) all adverse incidents involving toxins;
- (iv) all loss, whether through theft or otherwise, of biological agents and toxins; and
- (v) the destruction by the operator of the facility of any of his stocks of First Schedule (Part II) biological agents, Second Schedule biological agents and Fifth Schedule toxins.

Failure to perform duties and obligations

45.—(1) Where the operator of a facility fails to comply with any duty or obligation imposed under this Division —

- (a) he shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000 or to imprisonment for a term not exceeding 12 months or to both and, in the case of a continuing offence, to a further fine not exceeding \$1,000 for every day or part thereof during which the offence continues after conviction; and
- (b) the Director may order any one or more of the following:
 - (i) the immediate cessation of any activity involving any biological agent or toxin at the facility;
 - (ii) the destruction of any biological agent or toxin at the facility;
 - (iii) the decontamination of the facility;
 - (iv) the closure or cordoning off of the facility until such time as the Director is satisfied that the facility may safely resume operation;
 - (v) that any person who is or was at the facility (whether as a member of the staff of the facility or otherwise) and who may be or may have been exposed to any biological agent or toxin at the facility should —

- (A) undergo such medical examination and medical treatment at such place or hospital as the Director may specify in the order; or
- (B) be quarantined at such place and for such period as the Director may specify in the order.

(2) Any person who contravenes any order made by the Director under subsection (1)(b) shall be guilty of an offence and shall be liable on conviction to be punished as follows:

- (a) where the offence involves a First Schedule (Part I) biological agent or a Third Schedule biological agent, with a fine not exceeding \$10,000 or with imprisonment for a term not exceeding 12 months or with both; and
- (b) where the offence involves a First Schedule (Part II) biological agent, a Second Schedule biological agent or a Fifth Schedule toxin, with a fine not exceeding \$100,000 or with imprisonment for a term not exceeding 10 years or with both.

(3) Where it is proved to the satisfaction of the court that the biosafety committee of a facility has rendered any advice to the operator of the facility under section 39(3) in a reckless or grossly negligent manner or in bad faith, every member of the biosafety committee shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000 or to imprisonment for a term not exceeding 12 months or to both unless he proves that —

- (a) the advice was rendered without his consent or connivance; and
- (b) he had exercised all such diligence to prevent the biosafety committee from rendering that advice as he ought to have exercised in the circumstances.

(4) Where any staff of a facility fails to comply with any measure, policy, programme or code of practice implemented by the biosafety co-ordinator of the facility pursuant to section 39(6)(b) or (8)(a), he shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000 or to imprisonment for a term not exceeding 12 months or to both.

*Division 2 — Duties and obligations of carriers
of biological agents and toxins*

Application

46.—(1) Except as otherwise specified, the duties and obligations specified in this Division shall apply to any carrier, being a person (including a transferor or transferee) who undertakes the transportation in Singapore of —

- (a) any First Schedule biological agent;
- (b) any Second Schedule biological agent;
- (c) any Third Schedule biological agent in quantities aggregating 10 litres or more carried on any conveyance at any one time; or
- (d) any Fifth Schedule toxin.

(2) In this Division —

“biological agent” means —

- (a) any First Schedule biological agent;
- (b) any Second Schedule biological agent; or
- (c) any Third Schedule biological agent transported in quantities aggregating 10 litres or more on any conveyance at any one time;

“toxin” means any Fifth Schedule toxin.

Transportation of biological agents and toxins

47.—(1) A carrier shall ensure that there are no unreasonable delays in his transportation of any biological agent or toxin.

(2) The carrier shall ensure that any person employed by him to drive any conveyance for the purpose of transporting biological agents and toxins is trained in the management of accidents involving biohazardous materials.

(3) For the purpose of subsection (2), the training of any person employed by a carrier to drive any conveyance for the purpose of

transporting biological agents and toxins shall include such training as the Director may specify.

(4) The carrier shall ensure that any conveyance used for the transportation of biological agents and toxins is affixed with such biohazard warning panel or label as the Director may require when transporting biological agents or toxins.

(5) Where, in the course of transporting biological agents or toxins on any conveyance, there is any spillage or leakage of the biological agents or toxins, the person employed by the carrier to drive the conveyance shall —

- (a) immediately cordon off the area surrounding the conveyance and the spillage or leakage; and
- (b) immediately notify the Commissioner of the Singapore Civil Defence Force or such officer as the Commissioner may authorise for the purpose of this section.

(6) For the purpose of transporting —

- (a) any First Schedule (Part II) biological agent;
- (b) any Second Schedule biological agent;
- (c) any Third Schedule biological agent in quantities aggregating 10 litres or more; or
- (d) any Fifth Schedule toxin,

the carrier shall take all necessary steps to ensure the security of the biological agent or toxin in the course of the transportation, including the use of security personnel and the prevention of unauthorised access to the biological agent or toxin.

Packaging and labelling of biological agents and toxins

48. The transferor shall ensure that the packing and labelling of biological agents and toxins being transported comply with such requirements as may be prescribed.

Failure to perform duties and obligations

49. Any person who contravenes any provision of this Division shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000.

PART VI**APPROVALS, PERMITS AND
CERTIFICATION OF FACILITIES****Approvals and permits**

50.—(1) An application for any approval or permit required under this Act shall be made to the Director in such form and manner as the Director may require and shall be accompanied by —

- (a) such particulars, information and documents as the Director may specify; and
- (b) if required by the Director, a statutory declaration by the applicant verifying any information contained in or relating to the application.

(2) An applicant for any approval required under this Act shall, if required by the Director or an enforcement officer, provide the Director or enforcement officer access to the facility of the applicant in order that the Director or enforcement officer may inspect such facility and observe the work processes and procedures undertaken thereat.

(3) Upon considering an application made under subsection (1), the Director may —

- (a) grant the approval or permit applied for, with or without conditions; or
- (b) refuse to grant the approval or permit applied for.

(4) The Director may at any time vary or revoke any of the existing conditions imposed under subsection (3)(a) or impose new conditions.

(5) Where the Director refuses to grant any approval or permit under subsection (3)(b), he shall, if requested to do so in writing by the applicant, state in writing the reasons for his refusal.

(6) An approval to possess any biological agent or toxin shall cease to be valid upon the occurrence of any of the following events:

- (a) upon the person to whom the approval has been granted ceasing to be the operator of the facility (whether certified or uncertified) specified in the approval;
- (b) where the facility in respect of which the approval has been granted is required under this Act to be a certified facility, upon that facility ceasing to be such a certified facility.

(7) If the Director has reason to believe that —

- (a) the grant of any approval or permit was obtained by fraud or misrepresentation;
- (b) the person to whom the approval or permit was granted has contravened, is contravening or is likely to contravene any provision of this Act or any condition imposed under subsection (3)(a) or (4); or
- (c) any activity carried out at the facility to which the approval or permit relates poses a risk to public health,

the Director may do all or any of the following:

- (i) suspend or cancel the approval or permit;
- (ii) order any one or more of the following:
 - (A) the immediate cessation of any activity involving any biological agent or toxin at the facility;
 - (B) the destruction of any biological agent or toxin at the facility;
 - (C) the decontamination of the facility;
 - (D) the closure or cordoning off of the facility until such time as the Director is satisfied that the facility may safely resume operation;
 - (E) that any person who is or was at the facility (whether as a member of the staff of the facility or otherwise) and who may be or may have been exposed to any biological agent or toxin at the facility should —

(EA) undergo such medical examination and medical treatment at such place or hospital as the Director may specify in the order; or

(EB) be quarantined at such place and for such period as the Director may specify in the order.

(8) The Director may suspend or cancel any approval or permit without any prior notice of such suspension or revocation.

(9) Where any approval or permit ceases to be valid or is suspended or cancelled, the Director or an enforcement officer may seize any biological agent or toxin to which the approval or permit relates, and any other material arising out of any activity carried out in relation to or in connection with the biological agent or toxin to which the approval or permit relates.

(10) Any person who contravenes any order made by the Director under subsection (7)(ii) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000 or to imprisonment for a term not exceeding 12 months or to both and, in the case of a continuing offence, to a further fine not exceeding \$1,000 for every day or part thereof during which the offence continues after conviction.

Certification of facilities

51.—(1) Any facility which is required to be a certified facility for the purposes of this Act shall be certified by an approved certification body.

(2) For the purpose of this Act, a certification of a facility under subsection (1) shall cease to be valid —

(a) upon the expiry of one year from the date of the certification; or

(b) upon any design or structural change made to the facility, whichever is the earlier.

(3) Where a certification of a facility ceases to be valid under subsection (2), the facility may be re-certified as a certified facility for the purposes under subsection (1).

(4) Where a facility is certified by an approved certification body under this section, the operator of the facility shall inform the Director of its certification in such form and manner as the Director may specify and provide to the Director a copy of the certification report issued by the approved certification body, before storing or carrying out any activity involving any biological agent at the certified facility.

(5) The operator of a certified facility shall comply with such requirements as may be prescribed.

(6) Where —

- (a) the operator of a facility stores or carries out any activity involving any biological agent without the facility being certified in accordance with this section;
- (b) the operator of a facility stores or carries out any activity involving any biological agent to which the certification relates without notifying the Director of the certification under this section or providing to the Director a copy of the certification report as required under subsection (4); or
- (c) the operator of a certified facility fails to comply with any prescribed requirement referred to in subsection (5),

the Director may order any one or more of the following:

- (i) the immediate cessation of any activity involving any biological agent at the facility;
- (ii) the destruction of any biological agent at the facility;
- (iii) the decontamination of the facility;
- (iv) the closure or cordoning off of the facility until such time as the Director is satisfied that the facility may safely resume operation;
- (v) that any person who is or was at the facility (whether as a member of the staff of the facility or otherwise) and who may be or may have been exposed to any biological agent at the facility should —

- (A) undergo such medical examination and medical treatment at such place or hospital as the Director may specify in the order; or
- (B) be quarantined at such place and for such period as the Director may specify in the order.

(7) Any person who contravenes any order made by the Director under subsection (6) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$10,000 or to imprisonment for a term not exceeding 12 months or to both and, in the case of a continuing offence, to a further fine not exceeding \$1,000 for every day or part thereof during which the offence continues after conviction.

(8) In this section, “approved certification body” means a certification body approved by the Director for the purpose of subsection (1).

PART VII ENFORCEMENT

Power of entry, inspection, search and seizure, etc.

52.—(1) For the purpose of the administration and enforcement of this Act, the Director or any enforcement officer may —

- (a) at any time and without warrant, enter, inspect and search any premises that are being used or that the Director or enforcement officer has reason to suspect are being used in contravention of this Act, and may —
 - (i) examine any practice or procedure that is being applied to any activity that has been or is being carried out on the premises;
 - (ii) inspect, or remove for inspection, any apparatus, appliance, equipment or instrument used or found on the premises;
 - (iii) inspect, test and examine, or remove for inspection, testing and examination, any container or receptacle

- found on the premises that the Director or enforcement officer reasonably believes to contain or to have contained any biological agent or toxin;
- (iv) inspect, test and examine, or remove for inspection, testing and examination, any substance or material found on the premises (including the product of any activity carried out on the premises) that the Director or enforcement officer reasonably believes to be or to include any biological agent or toxin;
 - (v) seize any such apparatus, appliance, equipment, instrument, container, receptacle, substance or material that the Director or enforcement officer reasonably believes to be the subject matter of, or to be connected with the commission of, an offence under this Act; and
 - (vi) require the owner of, or the operator of any facility on, the premises to —
 - (A) decontaminate the premises in such manner as the Director or enforcement officer may specify; and
 - (B) stop using, and to prevent any other person from entering or using, the premises until the Director or enforcement officer is satisfied that the premises are safe for use;
- (b) at any time and without warrant, stop, board, inspect and search any conveyance that is being used or that the Director or enforcement officer has reason to suspect is being used in contravention of this Act, and may —
- (i) inspect, or remove for inspection, any apparatus, appliance, equipment or instrument used or found on the conveyance;
 - (ii) inspect, test and examine, or remove for inspection, testing and examination, any container or receptacle found on the conveyance that the Director or

- enforcement officer reasonably believes to contain or to have contained any biological agent or toxin;
- (iii) inspect, test and examine, or remove for inspection, testing and examination, any substance or material found on the conveyance that the Director or enforcement officer reasonably believes to be or to include any biological agent or toxin;
 - (iv) seize any such apparatus, appliance, equipment, instrument, container, receptacle, substance or material that the Director or enforcement officer reasonably believes to be the subject matter of, or to be connected with the commission of, an offence under this Act; and
 - (v) require the owner of or the person using the conveyance to —
 - (A) decontaminate the conveyance in such manner as the Director or enforcement officer may specify; and
 - (B) stop using, and to prevent any other person from using, the conveyance until the Director or enforcement officer is satisfied that the conveyance is safe for use;
- (c) require any person to furnish any information within his knowledge, including information relating to —
- (i) any activity that has been or is being carried out on any premises;
 - (ii) any person involved in the carrying out of any activity on any premises;
 - (iii) any practice or procedure that has been or is being applied to any activity carried out on any premises;
 - (iv) any apparatus, appliance, equipment or instrument that has been or is being used in carrying out any activity on any premises; and

- (v) the source of any biological agent or toxin that has been or is being used in the carrying out of any activity on any premises, or which is found on any conveyance,

and may further require such person to attend at a specified time and place for the purposes of complying with this paragraph;

[10/2008 wef 10/06/2008]

- (d) require any person to produce in a form which is visible and legible and may be taken away, any information stored in any electronic form relating to —

- (i) any activity that has been or is being carried out on any premises;
- (ii) any person involved in the carrying out of any activity on any premises;
- (iii) any practice or procedure that has been or is being applied to any activity carried out on any premises;
- (iv) any apparatus, appliance, equipment or instrument that has been or is being used in carrying out any activity on any premises; and
- (v) the source of any biological agent or toxin that has been or is being used in the carrying out of any activity on any premises, or which is found on any conveyance,

and may further require such person to attend at a specified time and place for the purposes of complying with this paragraph;

[10/2008 wef 10/06/2008]

- (e) require any person to produce any book or document relating to —

- (i) any activity that has been or is being carried out on any premises;
- (ii) any person involved in the carrying out of any activity on any premises;

- (iii) any practice or procedure that has been or is being applied to any activity carried out on any premises;
- (iv) any apparatus, appliance, equipment or instrument that has been or is being used in carrying out any activity on any premises; and
- (v) the source of any biological agent or toxin that has been or is being used in the carrying out of any activity on any premises, or which is found on any conveyance,

for inspection, retention or the making of copies thereof by the Director or any enforcement officer, or to provide the Director or any enforcement officer with copies of such book or document; and may further require such person to attend at a specified time and place for the purposes of complying with this paragraph;

[10/2008 wef 10/06/2008]

- (f) require any person who was or is present on any premises or on any conveyance and whom the Director or enforcement officer has reason to suspect has been exposed to any biological agent or toxin to undergo such medical examination and medical treatment at such place or hospital as the Director may specify; and
- (g) arrest without warrant any person whom the Director or enforcement officer has reason to believe has committed any offence under this Act if —
 - (i) the name and address of that person are unknown;
 - (ii) that person refuses or declines to give his name or address when required; or
 - (iii) the enforcement officer has reason to doubt the accuracy of any name or address given by that person.

(2) Any person who —

- (a) refuses or fails, without reasonable excuse, to comply with any requirement of the Director or an enforcement officer under this section; or
- (b) gives any false or misleading information when required to furnish any information to the Director or an enforcement officer under this section,

shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$5,000 or to imprisonment for a term not exceeding 6 months or to both.

Power to make orders for cessation of activity on facilities, etc.

53.—(1) Where the Director has reason to suspect that any storage of or activity involving any biological agent, inactivated biological agent or toxin at or carried out on any facility —

- (a) has or is suspected to have given rise, or is likely to give rise, to an adverse incident;
- (b) poses an imminent threat to public health;
- (c) is a threat to national security; or
- (d) is contrary to the public interest,

the Director may order any one or more of the following:

- (i) the immediate cessation of any activity involving any biological agent or toxin at the facility;
- (ii) the destruction of any biological agent or toxin at the facility;
- (iii) the decontamination of the facility;
- (iv) the closure or cordoning off of the facility until such time as the Director is satisfied that the facility may safely resume operation;
- (v) that any person who is or was at the facility (whether as a member of the staff of the facility or otherwise) and who may be or may have been exposed to any biological agent or toxin at the facility should —

- (A) undergo such medical examination and medical treatment at such place or hospital as the Director may specify in the order; or
- (B) be quarantined at such place and for such period as the Director may specify in the order.

(2) Any person who contravenes any order made by the Director under subsection (1) shall be guilty of an offence and shall be liable on conviction to a fine not exceeding \$100,000 or to imprisonment for a term not exceeding 10 years or to both.

(3) Subsection (1) shall be in addition to, and not in derogation of, any other provision in this Act empowering the Director to make any similar order referred to in paragraphs (i) to (v) of that subsection.

(4) Where an order is made under this Act by the Director —

- (a) for the cessation of any activity at any facility;
- (b) for the destruction of any biological agent, inactivated biological agent or toxin;
- (c) for the decontamination of any facility;
- (d) for the closure or cordoning off of any facility; or
- (e) that any person who may be or may have been exposed to any biological agent or toxin at the facility should undergo any medical examination or medical treatment or be quarantined,

the Director or an enforcement officer may take such measures as may be reasonable and necessary to ensure that the order is properly carried out, including any remedial or precautionary measure as may be necessary for ensuring the safety of persons carrying out the order or who are present at the facility when the order is being carried out.

(5) Where any order has been made by the Director under this Act for —

- (a) the cessation of any activity involving any biological agent, inactivated biological agent or toxin;
- (b) the destruction of any biological agent, inactivated biological agent or toxin; or

(c) the closure or cordoning off of any facility at which there is any biological agent, inactivated biological agent or toxin, the Director or an enforcement officer may seize any biological agent, inactivated biological agent or toxin to which the order relates, and any other material arising out of any activity carried out involving the biological agent, inactivated biological agent or toxin.

Power of seizure

54.—(1) Where the Director or an enforcement officer has exercised his power of seizure under this Act —

- (a) the Director or enforcement officer shall immediately give notice in writing of the seizure to the owner of the matter seized, or the person from whom the matter was seized, and may —
 - (i) direct that the matter under seizure be kept or stored in the premises or conveyance where it was seized or be removed to any other place to be kept or stored thereat; or
 - (ii) dispose of the matter seized immediately if the Director or enforcement officer is of the view that it is decayed, putrefied or deleterious to health; and
- (b) any person aggrieved by the seizure may, within 48 hours after the seizure, complain thereof to a Magistrate's Court and the Magistrate's Court may —
 - (i) confirm the seizure wholly or in part;
 - (ii) disallow the seizure wholly or in part;
 - (iii) order that any matter that has been seized be returned to its owner, subject to any condition which the Court may think fit to impose to ensure that the matter seized is preserved for any purpose for which it may subsequently be required; or
 - (iv) order payment to be made to the owner of or person entitled to the matter seized of such amount as the

Court considers reasonable compensation to him for any loss or depreciation resulting from the seizure.

(2) Where —

- (a) no complaint is received by the Magistrate's Court within 48 hours of the seizure under subsection (1)(b); or
- (b) the Magistrate's Court confirms the seizure under subsection (1)(b)(i),

the matter seized in its entirety or to the extent to which its seizure was confirmed by the Magistrate's Court, as the case may be, shall become the property of the Government and shall be destroyed, disposed of or otherwise dealt with in such manner as the Director thinks fit.

Obstruction of public officers

55.—(1) No person shall at any time hinder, obstruct or molest the Director or any enforcement officer in the performance and execution of his duty or of anything which he is empowered or required to do by virtue or in consequence of or under this Act.

(2) Any person who contravenes subsection (1) shall be guilty of an offence and shall be liable on conviction —

- (a) in the case of a first offence, to a fine not exceeding \$5,000 or to imprisonment for a term not exceeding 6 months or to both; and
- (b) in the case of a second or subsequent offence, to a fine not exceeding \$10,000 or to imprisonment for a term not exceeding 12 months or to both.

Offences by bodies corporate, etc.

56.—(1) Where an offence under this Act committed by a body corporate is proved —

- (a) to have been committed with the consent or connivance of an officer; or
- (b) to be attributable to any neglect on his part,

the officer as well as the body corporate shall be guilty of the offence and shall be liable to be proceeded against and punished accordingly.

(2) Where the affairs of a body corporate are managed by its members, subsection (1) shall apply in relation to the acts and defaults of a member in connection with his functions of management as if he were a director of the body corporate.

(3) Where an offence under this Act committed by a partnership is proved —

(a) to have been committed with the consent or connivance of a partner; or

(b) to be attributable to any neglect on his part,

the partner as well as the partnership shall be guilty of the offence and shall be liable to be proceeded against and punished accordingly.

(4) Where an offence under this Act committed by an unincorporated association (other than a partnership) is proved —

(a) to have been committed with the consent or connivance of an officer of the unincorporated association or a member of its governing body; or

(b) to be attributable to any neglect on the part of such an officer or member,

the officer or member as well as the unincorporated association shall be guilty of the offence and shall be liable to be proceeded against and punished accordingly.

(5) In this section —

“body corporate” includes a limited liability partnership;

“officer” —

(a) in relation to a body corporate, means any director, partner, member of the committee of management, chief executive, manager, secretary or other similar officer of the body corporate and includes any person purporting to act in any such capacity; or

(b) in relation to an unincorporated association (other than a partnership), means the president, the secretary, or any member of the committee of the unincorporated association, or any person holding a

position analogous to that of president, secretary or member of a committee and includes any person purporting to act in any such capacity;

“partner” includes a person purporting to act as a partner.

(6) Regulations may provide for the application of any provision of this section, with such modifications as the Minister considers appropriate, to any body corporate or unincorporated association formed or recognised under the law of a territory outside Singapore.

Liability for offences by agents or servants

57. Where an offence under this Act is committed by any person acting as an agent or a servant of another person, or being otherwise subject to the supervision or instruction of another person for the purposes of any employment in the course of which the offence was committed, that other person shall, without prejudice to the liability of the first-mentioned person, be liable under this Act in the same manner and to the same extent as if he had personally committed the offence if it is proved that the act which constituted the offence was committed with his consent or connivance or that it was attributable to any neglect on his part.

Jurisdiction of court

58. Notwithstanding any provision to the contrary in the Criminal Procedure Code (Cap. 68), a District Court shall have jurisdiction to try any offence under this Act (other than the offences under sections 5, 16 and 30) and shall have power to impose the full penalty or punishment in respect of the offence.

Composition of offences

59.—(1) The Director may, in his discretion, compound all offences under this Act, other than the offences specified in the Eighth Schedule, by collecting from a person reasonably suspected of having committed the offence a sum not exceeding —

- (a) one half of the amount of the maximum fine that is prescribed for the offence; or
- (b) \$5,000,

whichever is the lower.

(2) On payment of such sum of money, no further proceedings shall be taken against that person in respect of such offence.

(3) All sums collected under this section shall be paid into the Consolidated Fund.

PART VIII

MISCELLANEOUS

Appeal to Minister

60.—(1) Any person who is aggrieved by —

- (a) any refusal of the Director to grant any approval or permit required under this Act;
- (b) any decision of the Director to suspend or revoke any such approval or permit; or
- (c) any order of the Director for the cessation of any activity carried out on any facility, the destruction of any biological agent, inactivated biological agent or toxin at any facility, the decontamination of any facility or the closure or cordoning off of any facility,

may appeal to the Minister in writing within such time as may be prescribed.

(2) The decision of the Minister shall be final.

(3) Notwithstanding any appeal, an order made by the Director for the cessation of any activity, or the closure or cordoning off of any facility, shall take effect from the date specified in the order, unless the Minister otherwise directs.

General exemption

61. The Minister may, either permanently or for such period as he may think fit, exempt any person or premises or any class of persons or premises from all or any of the provisions of this Act.

Amendment of Schedules

62. The Minister may at any time, by order published in the *Gazette*, amend any Schedule.

Regulations

63.—(1) The Minister may make regulations for carrying out the purposes and provisions of this Act.

(2) Without prejudice to the generality of subsection (1), the Minister may make regulations for or with respect to all or any of the following matters:

- (a) the regulation of the possession, storage, use, import, transfer, transportation and disposal of scheduled biological agents, inactivated scheduled biological agents and Fifth Schedule toxins, including —
 - (i) the imposition of duties and obligations of persons who possess, store, use, import, transfer, transport or dispose of such biological agents, inactivated biological agents and toxins; and
 - (ii) the measures, practices, procedures, processes and standards to be adopted and implemented in the possession, storage, use, import, transfer, transportation and disposal of such biological agents, inactivated biological agents and toxins;
- (b) the regulation of the design and structural requirements of facilities;
- (c) the qualifications of persons controlling, managing or carrying out the storage or disposal of, or activities involving, any scheduled biological agent, inactivated scheduled biological agent or Fifth Schedule toxin at any facility;
- (d) the measures to be adopted and implemented for dealing with and investigating into any adverse incident and the procedures for the reporting of such adverse incident to the Director;

- (e) the duties and obligations of operators, biosafety committees, biosafety co-ordinators and staff of facilities (in addition to the duties and obligations of such persons specified in this Act);
 - (f) the procedures of biosafety committees;
 - (g) the prescribing of fees payable for the purposes of this Act;
 - (h) such matters as may be required by this Act to be prescribed;
 - (i) such other matter as the Minister thinks necessary for the administration and enforcement of this Act.
- (3) The Minister may, in making any regulations under this section —
- (a) provide that where there has been any contravention of any provision thereof, the Director may, as may be appropriate, order —
 - (i) the immediate cessation of any activity involving any scheduled biological agent, inactivated scheduled biological agent or Fifth Schedule toxin;
 - (ii) the destruction of any scheduled biological agent, inactivated scheduled biological agent or Fifth Schedule toxin;
 - (iii) the decontamination of any facility;
 - (iv) the closure or cordoning off of any facility until such time as the Director is satisfied that the facility may safely resume operation; and
 - (v) that any person who is or was at any facility (whether as a member of the staff of the facility or otherwise) and who may be or may have been exposed to any scheduled biological agent, inactivated scheduled biological agent or Fifth Schedule toxin at the facility should —

- (A) undergo such medical examination and medical treatment at such place or hospital as the Director may specify in the order; or
 - (B) be quarantined at such place and for such period as the Director may specify in the order; and
- (b) provide that a contravention of any provision of the regulations or an order referred to in paragraph (a) made under the regulations shall be an offence punishable —
- (i) in relation to or in connection with any First Schedule (Part I) biological agent, Third Schedule biological agent or Fourth Schedule biological agent, with a fine not exceeding \$10,000 or with imprisonment for a term not exceeding 12 months or with both; and
 - (ii) in relation to or in connection with any First Schedule (Part II) biological agent, Second Schedule biological agent or Fifth Schedule toxin, with a fine not exceeding \$100,000 or with imprisonment for a term not exceeding 10 years or with both.
- (4) In this section —
- “inactivated scheduled biological agent” means a First Schedule biological agent, a Second Schedule biological agent, a Third Schedule biological agent or a Fourth Schedule biological agent that has been inactivated;
- “scheduled biological agent” means a First Schedule biological agent, a Second Schedule biological agent, a Third Schedule biological agent or a Fourth Schedule biological agent.

FIRST SCHEDULE

Section 2

FIRST SCHEDULE BIOLOGICAL AGENTS

PART I

Bacteria

1. *Brucella canis*

FIRST SCHEDULE — *continued*

2. *Chlamydia psittaci* (avian strains)
3. *Mycobacterium canettii*
4. *Mycobacterium africanum*
5. *Mycobacterium bovis* (non-BCG strains)
6. *Mycobacterium microti*
7. *Mycobacterium tuberculosis*
8. Any biological agent that is a constructed or reconstructed replication-competent form of any bacterium set out in this Part
[S 573/2009 wef 01/12/2009]

Fungi

1. *Blastomyces dermatitidis*
2. *Histoplasma capsulatum* var. *capsulatum*
3. *Histoplasma capsulatum* var. *duboisii*
4. *Paracoccidioides brasiliensis*
- 4A. *Coccidioides immitis*
[S 396/2015 wef 01/07/2015]
- 4B. *Coccidioides posadasii*, except for the following attenuated strains:
 - (a) Δ chs5; and
 - (b) Δ cts2/ Δ ard1/ Δ cts3
[S 396/2015 wef 01/07/2015]
5. Any biological agent that is a constructed or reconstructed replication-competent form of any fungus set out in this Part
[S 573/2009 wef 01/12/2009]

Viruses

1. *Arenaviridae*
 - (a) Lymphocytic choriomeningitis virus
 - (b) Mopeia virus
 - (c) LCM-Lassa complex viruses (except Lassa virus)
 - (d) Flexal virus
[S 396/2015 wef 01/07/2015]

FIRST SCHEDULE — *continued*2. *Bunyaviridae*

- (a) Akabane virus
- (b) California encephalitis virus
- (c) Oropouche virus
- (d) Hantaviruses
- (e) Bhanja virus
- (f) Nairobi sheep disease virus

[S 396/2015 wef 01/07/2015]

3. *Flaviviridae*

- (a) Japanese encephalitis virus (except for the vaccine strain 14-14-2 virus)
[S 676/2007 wef 1/1/2008]
- (b) Murray Valley encephalitis virus
- (c) Rocio virus
- (d) St. Louis encephalitis virus
- (e) Wesselsbron virus
- (f) West Nile virus
- (g) Louping ill virus
- (h) Negishi virus
- (i) Powassan virus

4. *Herpesviridae*

- (a) Herpesvirus ateles

5. *Orthomyxoviridae*

- (a) Dhori virus
- (b) Thogoto virus
- (c) Influenza A virus subtype H5N1
- (d) Influenza A virus subtype H7N9

[S 396/2015 wef 01/07/2015]

6. *Picornaviridae*

- (a) Poliovirus, except for the following vaccine strains:
 - (i) sabin Type-1;
 - (ii) sabin Type-2; and

FIRST SCHEDULE — *continued*

(iii) sabin Type-3

*[S 676/2007 wef 01/01/2008]*7. *Reoviridae*

(a) Orungo virus

8. *Retroviridae*

(a) Human immunodeficiency virus (HIV) Types 1 and 2, except for any advanced generation HIV lentiviral vector, which means —

(i) any third or higher generation HIV vector; or

(ii) any HIV vector with all of the following features:

(A) comprises a minimum of 4 plasmids in total which includes all types of plasmid (e.g. packaging, structural, accessory, etc.);

(B) HIV genes are split to a minimum of 2 packaging plasmids;

(C) the *env* gene encoding for the HIV envelope is replaced;(D) the *vif*, *vpr*, *vpu* and *nef* genes are either absent or altered to be non-functional;(E) the *rev* and *tat* genes are absent, non-functional or expressed from a separate construct; and(F) the *Gag* and *Pol* genes are split over at least 2 plasmids or there is deletion in the 3'LTR or both.*[S 541/2011 wef 01/10/2011]*

(b) Human T lymphotropic virus (HTLV) Types 1 and 2

(c) Simian immunodeficiency virus

9. *Rhabdoviridae*

(a) Rabies virus

(b) Vesicular stomatitis virus (except Indiana vesiculovirus and New Jersey vesiculovirus)

*[S 652/2017 wef 01/12/2017]*10. *Togaviridae*(a) *[Deleted by S 676/2007 wef 01/01/2008]*

(b) Everglades virus

(c) Getah virus

FIRST SCHEDULE — *continued*

- (d) Mayaro virus
 - (e) Mucambo virus
 - (f) Ndumu virus
 - (g) Semliki forest virus
 - (h) Tonate virus
 - (i) Western equine encephalitis virus
11. Unconventional agents associated with the transmission of Spongiform Encephalitis
- (a) Bovine spongiform encephalopathy prion and other related animal transmissible spongiform encephalopathy prion
 - (b) Gerstmann-Straussler-Scheinker syndrome prion
 - (c) Kuru prion
 - (d) Creutzfeldt-Jakob disease prion
 - (e) Variant Creutzfeldt-Jakob disease prion
 - (f) Fatal familial insomnia prion
12. Any biological agent that is a constructed or reconstructed replication-competent form of any virus set out in this Part

[S 573/2009 wef 01/12/2009]

PART II

Bacteria

1. *Bacillus anthracis*, except for the attenuated strains devoid of —
- (a) plasmid pX02; or
 - (b) plasmids pX01 and pX02
- [S 676/2007 wef 01/01/2008]
- 1A. *Bacillus cereus* biovar *anthracis*
- [S 652/2017 wef 01/12/2017]
2. *Brucella abortus*, except for the attenuated strains —
- (a) 19; or
 - (b) RB51
- [S 676/2007 wef 01/01/2008]
3. *Brucella melitensis*
4. *Brucella suis*

FIRST SCHEDULE — *continued*

5. *Burkholderia mallei*
6. *Burkholderia pseudomallei*
7. *Clostridium botulinum*
8. *Franciscella tularensis*, except for the attenuated strains of —
 - (a) the subspecies of *novicida* (the UTAH 112 [ATCC 15482]);
 - (b) the subspecies of *holartica* live vaccine strain [ATCC 29684]; or
 - (c) the B38 strain [ATCC 6223]

[S 676/2007 wef 01/01/2008]
9. *Yersinia pestis*, except for the attenuated strains devoid of —
 - (a) Pgm locus [EV76 strain];
 - (b) 75 kb low-calcium response virulence plasmid [Tjwidej S strain]

[S 676/2007 wef 01/01/2008]
10. Any biological agent that is a constructed or reconstructed replication-competent form of any bacterium set out in this Part

[S 573/2009 wef 01/12/2009]

Rickettsiae

1. *Coxiella burnetii* (except for the attenuated Phase II, plaque purified clone 4 of the Nine Mile strain)

[S 676/2007 wef 01/01/2008]
2. *Rickettsia* — all species
3. Any biological agent that is a constructed or reconstructed replication-competent form of any rickettsia set out in this Part

[S 573/2009 wef 01/12/2009]

Viruses

1. *[Deleted by S 396/2015 wef 01/07/2015]*
2. *Bunyaviridae*
 - (a) *[Deleted by S 396/2015 wef 01/07/2015]*
 - (b) *[Deleted by S 396/2015 wef 01/07/2015]*
 - (c) *[Deleted by S 396/2015 wef 01/07/2015]*
 - (d) Rift Valley fever virus (except for the vaccine strain MP-12)

[S 676/2007 wef 01/01/2008]

FIRST SCHEDULE — *continued*

3. *Coronaviridae*
 - (a) Middle East Respiratory Syndrome Coronavirus (MERS CoV)
[S 396/2015 wef 01/07/2015]
 - (b) Severe Acute Respiratory Syndrome Coronavirus (SARS CoV),
formerly known as SARS Coronavirus
[S 396/2015 wef 01/07/2015]
4. *Flaviviridae*
 - (a) Yellow fever virus (except for the vaccine strain 17-D)
[S 676/2007 wef 01/01/2008]
5. *Poxviridae*
 - (a) Monkeypox virus
6. *Togaviridae*
 - (a) Eastern equine encephalitis virus
 - (b) Venezuelan equine encephalitis virus
[S 589/2006]
7. Any biological agent that is a constructed or reconstructed replication-competent form of any virus set out in this Part.
[S 573/2009 wef 01/12/2009]

SECOND SCHEDULE

Section 2

SECOND SCHEDULE BIOLOGICAL AGENTS

1. Crimean-Congo haemorrhagic fever virus
2. Cercopithecine herpesvirus 1
3. Ebola virus
4. Guanarito virus
5. Hendra virus
6. Junin virus
7. Lassa fever virus
8. Machupo virus
9. Marburg virus
10. Nipah virus
11. Sabia virus

SECOND SCHEDULE — *continued*

12. Tick-borne encephalitis viruses (including Central European tick-borne encephalitis virus, Far Eastern tick-borne encephalitis virus, Russian spring-summer encephalitis virus, Kyasanur forest virus, Omsk haemorrhagic fever virus, with the exception of Louping ill, Negishi and Powassan viruses listed in Schedule 1)
13. Variola major (Smallpox) virus
14. Variola minor (Alastrim) virus
15. 1918 pandemic influenza virus
[S 573/2009 wef 01/12/2009]
- 15A. Lujo virus
[S 396/2015 wef 01/07/2015]
- 15B. Chapare virus
[S 396/2015 wef 01/07/2015]
16. Any biological agent that is a constructed or reconstructed replication-competent form of any biological agent set out in this Schedule.
[S 573/2009 wef 01/12/2009]

THIRD SCHEDULE

Section 2

THIRD SCHEDULE BIOLOGICAL AGENTS

BACTERIA

1. *Bordetella pertussis*
2. *Legionella* — all species and all Legionella-like organisms

VIRUSES

1. Hepatitis B virus.

FOURTH SCHEDULE

Section 2

FOURTH SCHEDULE BIOLOGICAL AGENTS

Any biological agent that causes death, disease or biological malfunction in a human, other than a First Schedule biological agent or a Second Schedule biological agent.

FIFTH SCHEDULE

Section 2

FIFTH SCHEDULE TOXINS

1. Botulinum toxins (Types A, B, C, D, E, F and G)

2. *Clostridium perfringens* toxins

3. Staphylococcal Enterotoxins

[S 396/2015 wef 01/07/2015]

4. Shigatoxins

5. Verotoxins

6. T-2 toxin

7. Tetanus toxin

[S 589/2006]

8. HT-2 toxin.

[S 541/2011 wef 01/10/2011]

SIXTH SCHEDULE

Section 39(1)

BIO SAFETY COMMITTEE

Every biosafety committee appointed by an operator in relation to its facility shall comprise the following persons:

- (a) the biosafety co-ordinator referred to in section 39(1);
- (b) a person having expertise in microbiology, and knowledge in the physical and biological sciences, and laboratory practices;
- (c) a member of the staff of the operator who is in charge of maintaining the safe and proper functioning of the facility and its equipment;
- (d) a representative from the senior management of the operator; and
- (e) such other person (whether appointed on a permanent or an ad hoc basis) who is, in the opinion of the operator of the facility, sufficiently qualified or experienced to enable the biosafety committee to carry out its functions specified in section 39.

SEVENTH SCHEDULE

Section 40(d)

BIOHAZARD SIGN

SEVENTH SCHEDULE — continued



ADMITTANCE TO AUTHORIZED PERSONNEL ONLY

Biosafety Level: _____

Responsible Investigator: _____

In case of emergency call: _____

Daytime phone: _____ **Home phone:** _____

Authorization for entrance must be obtained from the Responsible Investigator named above.

EIGHTH SCHEDULE

Section 59(1)

NON-COMPOUNDABLE OFFENCES

1. An offence under section 5 or 30 is not compoundable under section 59.

[S 396/2015 wef 01/07/2015]

LEGISLATIVE HISTORY
BIOLOGICAL AGENTS AND TOXINS ACT
(CHAPTER 24A)

This Legislative History is provided for the convenience of users of the Biological Agents and Toxins Act. It is not part of the Act.

1. Act 36 of 2005 — Biological Agents and Toxins Act 2005

Date of First Reading : 19 September 2005
(Bill No. 26/2005 published on
20 September 2005)

Date of Second and Third Readings : 18 October 2005

Date of commencement : 3 January 2006

2. G. N. No. S 589/2006 — Biological Agents and Toxins Act (Amendment of First and Fifth Schedules) Order 2006

Date of commencement : 1 November 2006

3. 2006 Revised Edition — Biological Agents and Toxins Act

Date of operation : 31 December 2006

4. Act 22 of 2007 — Dentists (Amendment) Act 2007

(Consequential amendments made by)

Date of First Reading : 27 February 2007
(Bill No. 9/2007 published on
27 February 2007)

Date of Second and Third Readings : 12 April 2007

Date of commencement : 1 January 2008

5. G. N. No. S 676/2007 — Biological Agents and Toxins Act (Amendment of First Schedule) Order 2007

Date of commencement : 1 January 2008

6. Act 10 of 2008 — Infectious Diseases (Amendment) Act 2008

(Related amendments made by)

Date of First Reading : 28 February 2008
(Bill No. 5/2008 published on
29 February 2008)

Date of Second and Third Readings : 22 April 2008

Date of commencement : 10 June 2008

7. G. N. No. S 573/2009 — Biological Agents and Toxins Act (Amendment of First and Second Schedules) Order 2009

Date of commencement : 1 December 2009

8. G. N. No. S 541/2011 — Biological Agents and Toxins Act (Amendment of First and Fifth Schedules) Order 2011

Date of commencement : 1 October 2011

9. G.N. No. S 396/2015 — Biological Agents and Toxins Act (Amendment of First, Second, Fifth and Eighth Schedules) Order 2015

Date of commencement : 1 July 2015

10. G.N. No. S 652/2017 — Biological Agents and Toxins Act (Amendment of First Schedule) Order 2017

Date of commencement : 1 December 2017