# 在體育用途的草地 安全及有效地施用除害劑 的守則



#### 《在體育用途的草地安全及有效地施用除害劑的守則》

#### <u>第一部分 緒言</u>

- 1. 本文列出安全及有效使用除害劑的守則,以維持草地質素及確保環境(包括本地動植物)得到保護。
- 2. 管方不應視本文列述的守則爲不二法門,因爲管理草地會 遇到種類繁多的問題,因此必須靈活處理。惟在環境許可 的情況下,應盡量依照守則行事。
- 3. 《在體育用途的草地安全及有效地施用除害劑的守則》 (《守則》)由本港各高爾夫球場及香港賽馬會的代表草擬, 並由漁農自然護理署協助制訂。
- 4. 《守則》應定期檢討,確保內容切合目前情況,能發揮效 用,並顧及技術、經濟及環境效益。

#### 第二部分 委任適任的人員

5. 管方應聘用曾受訓能掌握草地管理及保養方面的理論及實踐的人員落實守則。草地管理人有責任了解掌握有關除害劑的最新知識。

#### 第三部分 指引

#### a) 訓練

6. 爲確保在需要時安全及有效地施用除害劑,管方須確保施用除害劑的人員曾接受有關基本訓練,如除害劑劑型、施用方法、安全措施、對環境的影響及除害劑施用器材的操作方法等。

#### b) 貯存、處理及棄置

7. 必須遵照有關條例及規例,特別是香港法例第133章《除 害劑條例》的規定貯存除害劑。化學品必須存放於牢固、 通風、具足夠防火及防溢設備的貯存地點。

- 8. 管方應制訂緊急應變程序(例如行動計劃),處理出現除害劑污染、濺溢、中毒及火警的情況。
- 9. 須委派一名適當職級的負責人接收送達的除害劑,確保盛 載除害劑的容器未有開封和沒有破損,並盡快將之運往既 定的貯存地點。
- 10. 所有廢棄的化學品及/或容器均須經由領有牌照的廢物收集公司依照《廢物處置(化學廢物)(一般)規例》棄置。

#### c) 策劃使用除害劑

- 11. 倘草地出現問題,應先找出正確因由。若毛病由病蟲害造成,應先考慮使用非化學防治方法(如用手拔除病草)。如這些方法不適用,才考慮使用最安全(以除害劑接觸人體及對環境的影響而言)和有效的化學品。在作出決定時,應留意並非所有在本港註冊的化學品都適宜用作草地管理。選擇除害劑時,應時刻顧及短期效用及其長遠影響,並應採用最適合綜合病蟲害防治計劃的化學品。
- 12. 選定化學品後,亦須選定其劑型和濃度,以盡量增強對目標生物的效用,同時把非目標生物和環境受影響的程度減至最低。在實施任何防治計劃前,應當考慮漁農自然護理署於其"正確安全施用除害劑"的單張所提出的安全守則。

#### d) 施用除害劑

13. 草地管理人有責任確保遵照產品標籤的說明施用除害劑。遵守此等說明(須有中英文本)能確保安全和有效地把化學品施用於目標生物。漁農自然護理署資料單張所載的指引也須遵守,並根據此等指引制訂一套除害劑施用手冊,包括列出施用除害劑時應做及不應做的事項。

#### e) 防護衣物及員工健康

14. 管方須爲施用除害劑的人員提供適當防護衣物,並確保有關人員在處理化學品時按照有關產品標籤或物料安全資料表的指示穿戴。管方亦須監測施用除害劑的人員的健康,有需要時安排他們接受適當護理。

#### f) 張貼告示

15. 作爲除害劑施用過程的主要部分,在施用除害劑前,管方須貼出告示,通知草地使用者在有關草地施用除害劑的安排。告示須包括所有除害劑的資料和將會施用的範圍。

## g) 備存記錄

16. 應備存有關除害劑數量、分析數據及所用除害劑的記錄。 草地管理人亦應備存有關的參考資料,如有關條例、物料 安全資料表和標籤資料等。

# 正確守全施用除害劑 草地口園藝保養 Safe Use of Pesticides Turf and Landscape

Management

漁農自然護理署 Agriculture, Fisheries and Conservation Department

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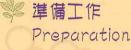


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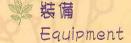


The essential components of IPM

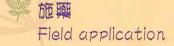
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運輸、貯藏口車置 Transportation, Storage and Disposal





### 簡介 Introduction

大部分除害劑本身含一定毒性,因此也須慎用,不可視立為解決蟲害的唯一方法。漁農自然護理署建議從事草地及園藝保養的人士採用綜合蟲害防治方法(Integrated Pest Management, IPM),減少施用除害劑。此舉不但能保障市民的健康及保護環境,而且亦可減低害蟲產生抗藥性的機會,從而提高其防治效果。

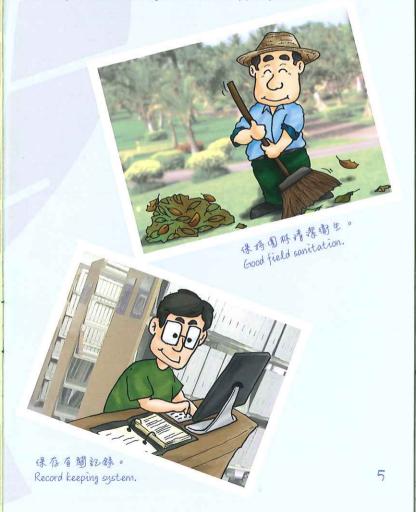
Most pesticides, given their intrinsic properties, are toxic in nature. Use of pesticides should not be regarded as the only solution to any pest problem but should only be used in a judicious manner. AFCD recommends the adoption of an Integrated Pest Management (IPM) approach to those who are engaged in turf grass and landscape management. Such approach can safeguard human health and protect the environment. It will not only reduce the use of pesticides but also prevent the development of pest resistance and enhance the effectiveness on pest control.

# 主要的綜合蟲害防治方法一般包括: The essential components of IPM generally include the followings:

- ·鑑別、監察口評估蟲害情況 Identification, monitoring and assessment of pest problems
- · 採用適當防治計劃口定期檢視 Adoption of a suitable pest control plan and conduct routine surveillance
- ·保持圆林清潔衛生
  Good field sanitation
- ·配合物理、生物及化學防治方法 Integration of physical, biological and chemical control
- ·保存有關記錄 Record keeping system

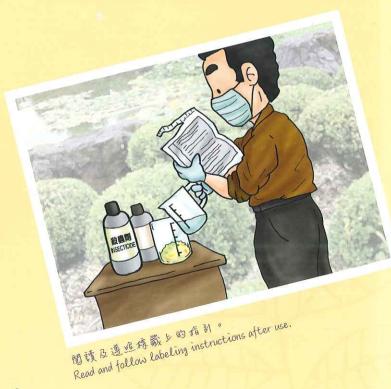


鐘刨、監察及評估職害情況。 Identification, monitoring and assessment of pest problems.





只選購已辭冊、包裝妥當及附有合格標籤的產品。 Purchase only properly packed, labeled and registered pesticides.



若有必要使用除害劑,使用者須顧己以人, 格外小心使用。以下列舉了一些安全指引以 供參考:

When pesticides are indeed needed to be used, pesticide users must always handle pesticides safely and responsibly. Some general safety guidelines are listed below for reference:

### 準備工作

Preparation

- · 因應有關園林口蟲害情況,選用合適的 除害劑。
  - Select the right pesticide products for target areas and pest problems concerned.
- ·只選購已註冊、包裝妥當尺附有合格標 籤的產品。

Purchase only properly packed, labeled and registered pesticides.

· 也須閱讀口遵照標籤上的指引,並特別 留意施用的濃度口使用次數、適用範 圖、有關的特別安全措施等。 Always read and follow labeling instructions. In particular, pay close attention to the dilution and application rate, suitable application areas and special precautions on safety, etc.

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- · 殺蟲劑/除真菌劑及除草劑應使用不同 噴霧器噴灑。每個噴霧器須加上的顯的 標記,以便易於辨別。 Use separate, clearly marked sprayers for insecticides/fungicides and herbicides.
- ·使用特別為除害劑而設的量杯,用復要 徹底清洗。 Use proper measuring cylinders which are reserved for use with pesticide and must be washed thoroughly after use.
- · 準確量度除害劑的使用量,切勿稀釋超過即時所需的份量。
  Measure carefully and mix only the amount needed for immediate use.
- ·在空氣流通處調配除害劑,用棒攪拌, 切勿徒手調配。 Mix the pesticide in a well-ventilated location. Use a stick to stir the mixture. Do not use bare hands.



使用特别意際害劑市設的量杯,用後書徹底譜饱。Use proper measuring cylinders which are reserved for use with pesticide and must be washed thoroughly after use.





採用棕黴指明的個人宴会裝備。 Wear appropriate personal protective equipment (PPE).



宠期檢查、維修及適當調技噴霧器。 Provide proper calibration, maintenance and regular checking.

- ·調配以施用除害劑時,應採用標籤指 明的個人母全裝備(例如工作服、膠手 喜、膠靴、面罩、護目鏡等)。 Wear appropriate personal protective equipment (PPE) as specified on the label (e.g. overalls, rubber gloves, boots, face mask, goggles etc.) when mixing and applying pesticides.
- ·定期檢查、維修口適當調較噴霧器, 留意噴霧器可能出現的毛病:例如藥液 由接口、喉管或破損處漏出:噴阻腐蝕 或阻塞(引致噴霧不均匀)等。 Provide proper calibration, maintenance and regular checking of leakages from joints, pipes and worn or blocked nozzles (uneven spray pattern), etc.
- ·使用噴霧器後,應以清水沖洗,並將噴 阻尺噴筒內的水份徹底排清。 Fill and rinse sprayer with clean water. Flushing out the water through nozzles and drain the tank completely.
- ·若未來 4 8 小時不會再使用機動噴霧器,應將油箱口化油器內的燃油徹底排清。

If a motorized sprayer is not going

to be used within the next 48 hours, drain fuel tank and carburetor and leave empty.

# 施藥 Field application

- ·在下列情況下切勿在戶外施興:
  Do not spray under outdoor
  application:
  - 施興範圍或目標作物已受雨水或霧水 沾漏 when target areas or objects are wet from rain or dew
  - | 吹強風時 | in a strong wind
  - 預測在未來數小時內可能會下雨 if you expect rain to fall within the next few hours
- ·勿在則曰當空下施藥,盡量於清晨或黃 昏時分施藥。 Do not apply pesticides under strong sunlight and as far as possible, apply during early morning or at nightfall.
- · 孕婦只對除害劑敏感之人士不宜施藥。
  Pregnant or sensitized persons
  should not apply pesticides.



Do not spray in a strong wind.



Do not spray if you expect rain to fall within the next few hours.





轮檠前後,應在當館處加上警告告示。 Past warning notices before and after spraying.



留意風句,緩順風句施藥。 Payattentian to wind direction and keep to windward when spraying.

- ·施藥前後,應在當眼處加上警告告示 (加毒藥、不准進八、除害劑名稱、 施藥日期以時間等)。 Post warning notices (e.g. Poison, no-entry, name of pesticide, date and time of application, etc) at conspicuous locations before and after spraying.
- ·施藥時不可以煙或飮食。
  Do not smoke, eat or drink when spraying.
- · 留意風向,須順風向施藥。
  Pay attention to wind direction and keep to windward when spraying.
- ·施藥時應避免藥霧飄散至非目標範圍, 例如深澗或池塘。 Avoid spray drift contaminating non-target areas, such as streams or ponds.
- ·小心藥霧,避免吸入或接觸到口、眼睛、皮膚及衣物。
  Beware of spray drift, do not inhale the mist. Avoid contact with mouth, eyes, skin and clothing.
- · 若感到不適,須立即停止施藥工作,並 應攜同標籤求醫診治。 Stop spraying immediately if you are feeling unwell. Bring along the label when seeking medical attention.

- · 慎防被藥液濺到。施藥時應在附近放置一桶清水口肥皂備用,加不慎被藥液濺口,便可立即清洗。
  Avoid getting pesticides on you.
  Keep a bucket of water and soap
  handy when you spray.... if you
  splash yourself with pesticides,
  wash immediately.
- · 如用剩少量已稀釋的藥液,可將立均勻 地價灑在施藥區內。 If you are left with a small quantity of diluted spray, spray it evenly over the treated area.
- ·施藥後須以清水口肥皂徹底清洗勻體。 每次施藥時所穿的衣物,穿後應即清洗,並須與日常衣物分開洗滌。 Wash thoroughly with soap and water after handling or using pesticides. Wash clothing after each pesticide application and wash them separately from other laundry.
- · 將空容器口攪拌棒徹底清洗3次,然復把該容器作一般都市廢物處置。
  Triple rinse empty container and wash mixing stick thoroughl and dispose of the container as standard municipal waste.
- · 収集清洗液並均勻地噴灑在旋藥區內, 切勿污染水源。 Collect ringing and spray it evenly

over the treated area. Do not contaminate water source.

# 運輸、貯藏口車置 Transportation, Storage and Disposal

- · 裝卸除害劑時均須小心。 Loading and unloading the pesticides with care.
- Always keep pesticide apparatus and container in a stable position during transportation.
- · 避免除害劑由容器或廣霧器內濺出。 Avoid spilling and leaking of pesticides from container or sprayer.



- ·不宜購買過目除害劑,足夠應付日常所需便可。
  - Purchase and keep only the amount of pesticides required for operational needs.
- ·常備除害劑物料母全資料表。
  Material Safety Data Sheet (MSDS)
  of pesticides should be available.



不宜購買過多保害劑。 Ruchose and keep only the arrant of posticides required for operational needs.



幸備保害劑物料层全資料表。 Naterial Safety Data Sheet (NSDS) of pesticides should be available.

- · 也須備存除害劑購買以棄置記錄,並備存最新的存貨清單以完整的施用包誌。 Record on all pesticide movements, stock keeping and detailed job application record sheet should be kept updated.
- ·不要貯存已稀釋的除害劑。
  Do not store diluted pesticides.
- ·除害劑也須貯存在附有標籤的原裝容器 內。貯藏前,須確保瓶蓋已封好。也須 把除害劑緊鎖,遠離食物、飲料或飼料 ,不可讓兒童或禽富莊觸,並須貯存於 陰涼乾燥處。

Pesticides should be stored under lock and key in their original, labeled container. Ensure all containers are tightly closed. Store pesticides away from food, drink and feed. Keep out of reach of children and livestock animals and store under cool and dry place.

- · 除草劑也須與其他殺蟲劑/除真菌劑分 開存放。 Herbicides should be stored separately from other insecticides/ fungicides.
- · 不可將空容器作其他用途。
  Do not use the empty container for other purposes.

- ·準備布料、沙、空容器、清潔用品等,以便在藥劑洩漏時可立即處理。
  Cloth, sand, empty container and cleaning materials should be readily available for handling immediate spillage or leakage.
- · 若要棄置過期或不需要的除害劑,必須符合環境保護署規管廢物處置所訂的法律管制規定。

Any obsolete or unwanted quantity of pesticide must be disposed of in accordance with the requirements of legislative control of waste disposal regulated by Environmental Protection Department.



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