

TOXICO-INTELLIGENCE

DR TSE MAN LI

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Toxico-

- Greek:
 - ▣ Toxicon: bow → arrow
→ poison painted onto arrow head

- Modern
 - ▣ Anything related to poisons / Toxins



-Intelligence

- information concerning an enemy or possible enemy
- an agency engaged in obtaining such information



New Poisons



- Dabigatran
- A new warfarin
- Thrombin inhibitor

New Behaviour

港府今公布緊急立法

入口奶品禁含三聚氰胺



國務院總理溫家寶到北京市醫院看望三鹿奶粉事件中患病兒童，矢意向有關企業追究責任。
新華社

毒奶禍害

毒奶問題一發不可收拾，全國腎石嬰增至四萬人，總理溫家寶坦言「很對不住大家、感到很內疚」。港府則鑑於要抽查的奶類產品眾多，已超出負荷，最快今日宣布透過緊急立法「先刊憲後審議」程序，禁止進口奶類製品含可致腎石的三聚氰胺，此後入口商必須確保供港食品達到法例要求，否則予以檢控。

本報記者

為阻止三聚氰胺奶類製品流入本港，危害市民健康，港府消息人士說，食物及衛生局局長周一徹昨午主持特別會議，聯同該局、衛生署、食環署和食物安全中心等高層官員，商討盡快立法，確保輸港奶類製品安全。

刊憲實施再交立會審議

消息人士透露，港府於今日公布立法禁止入口含三聚氰胺的奶類製品，並盡快刊憲，在《食物內有害物質規例》附表中加入「三聚氰胺」，所有入口商均須輸港奶類製品不含三聚氰胺，方能輸入香港。法例以先立法後審議模式進行（negative vetting），一經刊憲便即時生效，立法會可以在廿八日內提出設立草案會議委員會，或提出反對，否則法例便會繼續生效。

消息人士說，港府會「多條腿走路」，一方面增加檢測人員，加快檢測奶類製品；第二是繼續按批次檢測奶類製品，優先檢測嬰兒由一至六個月的奶類食品，其次是幼兒的奶類製品，之後包括雪糕、雪條和麵包等奶類製品；第三是協助有需要的小童，只要有任何徵狀或有合理懷疑，如每日飲用有問題奶類製品，都會為他們檢驗。

立法會議員張宇人認為政府應盡快立法，直接引用新例回收違例食品和控告入口商、批

發商或零售商，日後入口商有責任化驗其售賣的食品，確保不含三聚氰胺。立法會議員李華明說，即使新例生效，也無助改善政府處理問題食品「慢三拍」的態度，因當局仍要化驗證實食物含三聚氰胺，才能檢控，但相信日後政府會將三聚氰胺納入日常抽驗範圍，一如數年前納入孔雀石綠。

溫總探病嬰 誓追究責任

內地因飲用毒奶粉患上腎結石的嬰兒增至三萬九千九百六十五人，其中一百零四人病情嚴重。總理溫家寶昨到北京醫院探望患病嬰兒，並說「很對不住大家」、「感到很內疚」。

他說：「在這起事件中，暴露出政府監管不力，也反映出一些企業缺乏職業道德和社會公德，用老百姓的話說就是『沒良心』。我們不僅要追究領導責任，對這樣的企業，也要堅決整頓、處理，一個也不放過！」

世界衛生組織批評，中國政府未有即時向國際社會通報毒奶粉事件，世衛西太平洋區總處主任身茂說，中國的食物監管系統不健全，政府內部出現溝通問題，即使知道奶粉有三聚氰胺一段時間，也無公布情況。他指北京當局目前嚴重處理事件是好開始，世衛專家正協助中國解決問題。

Both



- Synthetic cannibis
- JWH, HU, AM, RCS, XLR...series
- Lab → Abuse

Toxicointelligence Team

- To forecast, to prevent and to prepare for

New Poisoning Outbreaks

Toxicintelligence Service

- COLLECT
 - ▣ poisoning related information

- ASSESS
 - ▣ Risk and impact

- PREPARE
 - ▣ Communication
 - ▣ Plans
 - ▣ Lab Test
 - ▣ Antidote

Collect – Automated TIMES

TIME-S Toxicintelligence Information Management E-System

HATS | Hospital Authority Toxicology Services

醫院管理局 HOSPITAL AUTHORITY

Welcome! Dr. Tse Man Li (PIC).

Search Advanced

Assessment Archive

Case No.	Topic	Date	Last modified Date	From Unit	By User	Unit	Revert to Assessment	Action
13-004336	恐怖炸彈... 產生劇毒氣 化氫1分鐘 致命, 聯合 新聞網	2013-04-17 14:30:00	2013-04-25 16:07:45	PIC	tseml	PIC		
13-004180	美研究-中國 米鉛超標百 倍-疑西方傾 倒毒廢料所 致-自食惡果	2013-04-12 09:41:00	2013-04-25 15:57:28	PIC	tseml	PTC		
	潮流興健身 帶衣蛋白粉							

Assess – Multidisciplinary team

- Clinical Toxicologist
- Emergency Physician
- Clinical Pharmacologist
- Physicians
- Pharmacist
- Chemical Pathologist
- Chemist
- Chinese Medicine Specialist

Assess – Systematic

The screenshot displays the TIME-S (PIC) web application interface. The browser address bar shows "TIME-S (PIC)". The page header includes the TIME-S logo (Toxicintelligence Information Management E-System) and logos for HATS (Hospital Authority Toxicology Services) and the Hospital Authority. A navigation menu on the left contains: Welcome! Dr. Tse Man Li (PIC), Manual Input, Inbox(48), Assessment(11), Assessment Archive(456), Archive(192), Trash(41293), Announcement, File Manager, and Forum. The main content area is titled "Assessment Archive" and shows a list of cases. The selected case is:

- Case No. 13-004336
- Case Name 恐怖炸彈...產生劇毒氰化氫, 聯合新聞網
- Case Date 2013-04-17 14:30:00

The case details are displayed in a scrollable area:

恐怖炸彈...產生劇毒氰化氫 1分鐘致命

2013.04.17 09:47 am

【聯合報/記者劉時均/台北報導】

偵辦行李炸彈案的警方專案小組，發現炸彈中有氰化鈉和鹽酸，兩者結合後會產生劇毒「氰化氫」；林口長庚醫院毒物科主任林杰樑說：「濃度高的話，最快一分鐘就會致命。」

Assess - SCORE

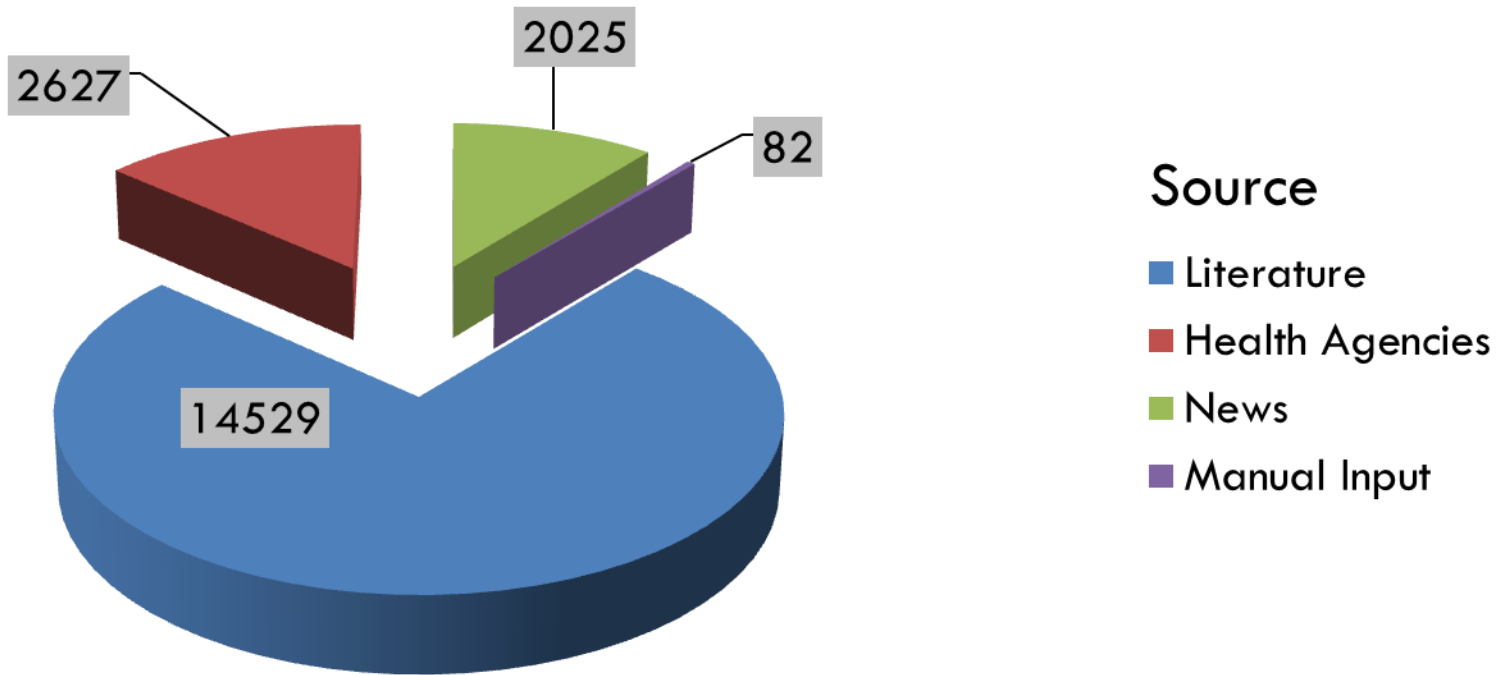
□ SCORE

- ▣ Severity
- ▣ Count
- ▣ Occurrence
- ▣ Relevance
- ▣ Expert opinion

	S	C	O	R	E						
PIC	-	-	-	-	-						
Score 1	0	1	2	3	4	5	U	Clear	S	Brief	Detail
	1	2	3	4				Clear	C	Brief	Detail
	0	1	2	3	4			Clear	O	Brief	Detail
	0	1	2	3				Clear	R	Brief	Detail
	N	Y						Clear	E	Expert Opinion	

~20000 pieces of Poisoning Information screened per year

No. of poisoning threats



Apr 2011-Mar 2012

Throughput Apr2011-Mar2012

19263

- Screening

194

- Group Assessment

15

- Complete Literature Review

6

- Toxicointelligence Monograph

Prepare

- HATS & IEC
- HA wide
 - ▣ Monographs
 - ▣ TIPS
- Externally
 - ▣ Government departments
 - ▣ Other professionals



HOSPITAL
AUTHORITY

Toxico-Intelligence Pearls (TIPS)

- a newsletter of Hospital Authority Toxicology Services

10 June 2011



HATS

Plasticizer in Pharmaceuticals

The problem
Low level (18ppm) of DIDP (Di-Isodecyl Phthalate, 鄰苯二甲酸二異癸酯), a plasticizer, has been found in syrup Augmentin® 156mg/5mL (GSK) in Hong Kong.



What is DIDP?
DIDP is a phthalate, which is mainly used as plasticizer in PVC applications. Recently, high level phthalates were found in food and beverage as an emulsifying agent resulting in withdrawal of those products.

What are the health effects of DIDP?
Acute ingestion of DIDP is minimally toxic to human. Animal studies showed that chronic use of DIDP may produce liver toxicity. In contrast to DEHP (Di(2-ethylhexyl)phthalate), DIDP was not shown to have adverse effects on the reproductive system and it is not known to be carcinogenic.

What is the ADI (Acceptable Daily Intake) of DIDP?
According to the US Consumer Product Safety Commission, its ADI is 150 microgram/kg/day.

Is the level contained in syrup Augmentin® 156mg/5mL (GSK) toxic?
Children taking the syrup Augmentin® (GSK) will have a DIDP intake of 2.9 microgram/kg/day, which is 2% of the ADI. The low exposed dose and the short-term exposure is not expected to cause any harm.


Chemicals in Environmental

- Bisphenol A
- Phthalates
- Diazinon
- Paraquat



Emerging Drug of Abuse

- Mephedrone
- TFMPP etc
- Methoxetamine
- MDPV
- Poppers

Chapter:	134 	Title:	DANGEROUS DRUGS ORDINANCE	Gazette Number:	L.N. 101 of 2012
Schedule:	1	Heading:		Version Date:	14/07/2012

PART I [sections 2, 3, 22 & 50]
(Amended L.N. 101 of 2012)

DANGEROUS DRUGS

(f) any compound (not being a compound for the time being specified in subparagraph (a)) structurally derived from 1-benzylpiperazine or 1-phenylpiperazine by modification in any of the following ways-

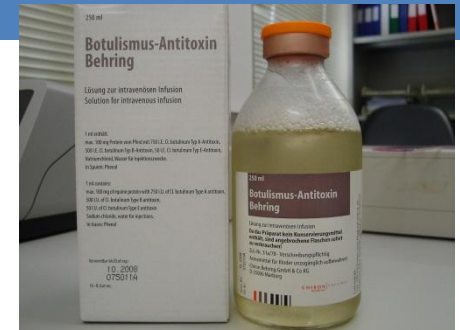
- (i) by substitution at the second nitrogen atom of the piperazine ring with alkyl, benzyl, haloalkyl or phenyl groups;
- (ii) by substitution in the aromatic ring to any extent with alkyl, alkoxy, alkylendioxy, halide or haloalkyl groups; (Added L.N. 7 of 2011)

Toxic Contaminants

- Diethylene Glycol
- Aconite rootstocks

Biological Toxins

- Food Botulism
- Pet scorpion



Androctonus australis
黃肥尾蠍 (N Africa)



Parabuthus transvaalicus
黑粗尾蠍 (S Africa)



Leiurus quinquestriatus
(以色列金蠍) (israel)

Toxico-Intelligence

INFORMATION



KNOWLEDGE



INTELLIGENCE



To learn...

To understand

To deal with

(Merriam-Webster)



HATS | Hospital Authority
Toxicology Services

Toxicointelligence Team

Poison
Treatment
Centre

Poison
Information
Centre

Toxicology
Reference
Lab

Chief
Pharmacy
Office

Infection Emergency & Contingence Service

http://toxicology.home

HOSPITAL AUTHORITY

TOXICOLOGY SERVICES



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Toxicology Services

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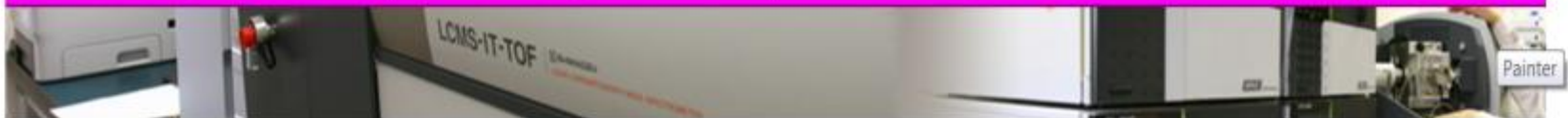
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TI Monograph 2011

1. [Bisphenol A - A Toxicological Review and Risk Assessment](#)
2. [Di\(2-ethylhexyl\) phthalate \(DEHP\)](#)