





CBRN Conference

Ian TIPPETT Specialized Officer CMX

November 2019















Glastonbury Festival



4 March 2018, 2.20pm

Sergey Skripal (66) and his daughter, Yuilia Skirpal (33) visit The Mill public house in Salisbury before visiting a Zizzi restaurant in the Maltings shopping centre.







4 March 2018, 4.15pm

Police receive a call from a member of the public after Mr Skripal, 66, and his daughter, 33, are found slumped on a bench near a Sainsbury's car park in Salisbury city centre.







8 March 2018

It is confirmed that Detective Sergeant Nick Bailey is in a serious condition after being exposed to the nerve agent.



11 March 2018

Five Salisbury locations are identified as possible sources of the nerve agent.



9 April 2018

Yulia Skripal was discharged from hospital and taken to a secure location.

18 May 2018

Sergei Skripal was discharged from the hospital.

Scientists believe the Novichok was smeared/sprayed on the front door handle of Sergei Skripal's home.





30 June 2018

Charlie Rowley from Amesbury and his girlfriend Dawn Sturgess are taken to hospital. Police initially believed the pair had taken drugs from a contaminated batch.

Amesbury is approximately eight miles from

Salisbury.



4 July 2018

Charlie Rowley and Dawn Sturgess, are revealed to be in a critical condition after suspected exposure to an unknown substance in Amesbury, Wiltshire.

8 July 2018

Dawn Sturgess, a mother-of-three, dies after being exposed to novichok.

Charlie Rowley remains in a critical condition after he was too was exposed to the nerve agent.







14 July 2018

Officers recover a small bottle from Charlie Rowley's home address that contains novichok.





The perfume bottle was inside a cellophane-wrapped sealed box and appeared to be unused.

"It had an oily substance and I smelt it and it didn't smell of perfume, it felt oily, so I washed it off really quick, but I didn't think anything of it."

He offered the bottle to Dawn Sturgess, whom he had been dating for nearly two years, she recognized the bottle and product as a known brand and sprayed it on

her wrists.



Novichok poisoning by the numbers

1 death

5 hospitalized

7000+ samples analysed



12,800+ hours spent in PPE

28 shipping containers of contaminated waste collected

540m3 waste sent for incineration



Operation Morlop - The Clean Up Operation

"To stop something spreading, you first need to know where it is. A substance that can't be seen poses obvious challenges."

Once a surface was identified as contaminated there were two choices: clean-up or disposal. The decontamination chemists balanced time, personnel safety and cost of clean-up against the same metrics for disposal.



'With a lot of these decontaminants, it's as much to do with the process as the product. Some of them can be applied and left in place for a given time, while some need a lot of physical scrubbing.'







Chemical decontamination was selected for Operation Morlop. Enzymes work best in 'lessaggressive decontamination formulations that can be used on sensitive equipment or complex surfaces, such as electronics'. 'Most items of this type were sent for disposal.'









Salisbury novichok emergency vehicles buried in landfill site. Secure burials pose 'absolutely no risk to the public' according to Defra

Salisbury in Wiltshire was chosen by the Sunday Times Best Places To Live guide 2019, because it "remains a divinely attractive and welcoming place".





2017 Kuala Lumpur Airport













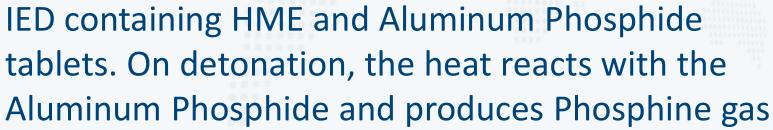
Kim Jong-nam attacked on 13 February 2017. Two women used a binary VX nerve agent.



Aluminium Phosphide in tablet form







- 1. CRIMP Chemical Risk & Mitigation Programme
- 2. LITMUS Early IED Awareness
- 3. CHIEF Chemical Post-Blast Investigations & Forensic recovery
- 4. **WATCHMAKER** information-sharing and data collection at a regional & global level on bomb-makers and the devices they make





- 4. CHARS Chemical Analysis Recovery and Sampling
- 5. **CACHE** Command & Control in Hazardous Environments
- 7. CHASM Chemical Awareness & Scene Management
- 8. **CHASM TtT** Chemical Awareness & Scene Management Train the Trainer Project
- 9. **CHASE** Targeting the smuggling of chemical explosive precursors.



INTERPOL Incident Response Team (IRT) Deployments of CMX staff to the Kenyan and Sri Lanka Suicide bombing attacks for explosive and crime scene assistance.



KENYA





SRI LANKA







4 May 2019

Terrorist Networks/IRT COLOMBO All INTERPOL Member Countries



OREQUEST FOR PUBLICATION OF A PURPLE NOTICE

Requesting country: Sri Lanka
File No.: (Category)
Date of publication: Click here to enter a date
Last update on: Click here to enter a date



MODUS OPERANDI

Type(s) of offence: Chemicals and improvised Explosive Device Components stored by Sri Lankan based terrorist group National Thowheeth Jama'ath (NTI)

OREQUEST FOR PUBLICATION OF A PURPLE NOTICE

Control No.: [Keywords] Requesting country: Sri Lanka File No.: [Category]



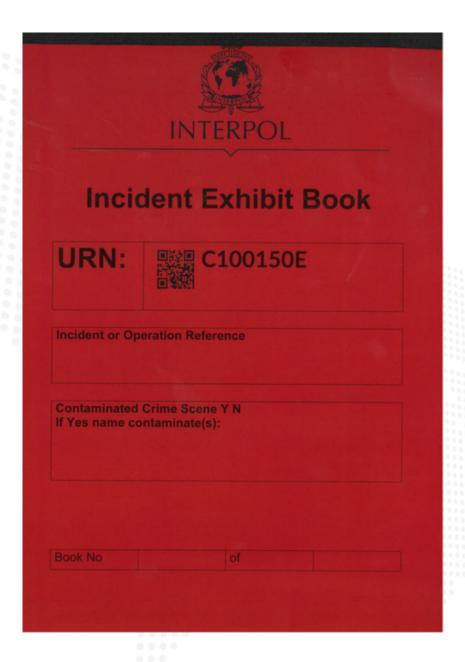
NOTICE

MODUS OPERANDI









Award winning film (Cannes & New York) - LITMUS







Interpol film shows how to recognise homemade explosives



INTERPOL For official use only



The following descriptions include adour, DO NOT and NEVER Intentionally smell/smiff unknown chemicals. The descriptions are recorded in case you become aware at a similar adour in your working environment indicating a contaminate, or if wearing PPE a breach in your respirator. Move upwind and away from the source as quickly as possible.

A description of the odour is included to provide early indication warning only.

This is NOT a definitive list of Chemical Warfare. Agents and is created to provide a basic guide.

Agent	Reference	Common Name	Looks/State	Dispersion	Odour	Symptoms
Barre	HA	(1000)	Columbas or Street Liquid	Hamilton.	Fridge	Finguist pepils, remay man, descripting season, descripting sampling sampling significant in the street sample sampling season s
	UR.	SARM	Calculate (April)	Signal/bill	Odenlas	
	60	SOMAN	Columbus Signif	Significant	Complex (Middelle)	
	ter	CTIONARDS	Calmulate Useful	Signal Policy	Small & Musely	
	ME	12.	Colombia Digital	Name (Original	Odmini.	
	ME	(VX)	Colombina Higgs	Higgs (70m)	Committee	
	Mar.	CAMPING WITHOUT	Columbia Digital	Liquid Phone	Commi	
	100	Meno .	Calculate United	September 1	Odenskie	
Chaking	co	HIOSSENE	Calminister State Values Shared	See .	Strong small of Wood/Stay	Compliting, eyes, some, literant includes a size recess of between the control of the control of the control of the control of the control of the control of the control department of the control of the department of the control of the control of the control of the department of the control of the control of the control of the department of the control of the control of the control of the department of the control of the control of the control of the department of the control of the control of the control of the department of the control of the control of the control of the department of the control of the control of the control of the department of the control of the control of the control of the department of the control of the contr
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		DATHEROSCYANGARDINE			THE RESERVE AND PERSONS ASSESSMENT	
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	H	MUSTABLE CONTURE.	Ciquital .	Alegaiditi	Harting Starter	
	HH4-1	NITROGEN MUSTARD ONE	COOp Columbia Signia	Hand Ones	ribs	
	HH-3	MITROGEN MUSTARO TWO	Oly Calendara Liquid	Hapita/One	196	
	1016-3	NETWOODN MUSTARD THREE	Ody Cularedess Liquid	Magnid/Own	Feb. 8 Sonia	
	L.	CEWISH	أنجانا سانته بدساسات	(Septe)	Person	
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PRECURSOR CHEMICALS

The following 24 chemicals are explosive precursors. This list is not extensive, however those that appear below are regulated and subject to controls by one or more of the national governments and agencies in Canada, USA, EU, UK, Australia and Singapore and raise flags to the international effort to counter the illicit diversion and trafficking of precursor chemicals used by terrorists and other criminal organizations to manufacture explosive devices.

Many of these chemicals have conventional and legitimate industrial and or agricultural uses, but can and have been used in manufacturing Home Made Explosives (HME) for Improvised Explosive Devices (IED)

The descriptions relate to the chemical in its purest form. If mixed with other chemicals it could have a different colour or texture.

An adour description is included to provide early indication warning only.

	Nome	Description	Odour
	Acetic Anhydride	Colourium Liquid	Vinegar
	Aretere	Colourious Liquid	Fruit/Netl Vernick Sussesser
	Allerinant Peruder	Silver/Grey Pennder	Odesriess
	Ammonium Nitrate	Calmeriana	Ammania
	Assumations Partifiance	Grainy White Percent	Odesriess
	Earless Mirrote	White Crystals	(Not Decomersed) Highly land
	Coliner Assessmention Nitrata	Colourlass Elquid	Ammenia
	Oversidine Minute	Colourium Crystals	Odeorless
	Heavenine)	Wary Inld	Mild Asympton
	Hydrogen Perusida	Calcurters tiqued	Ordentines
	Nikis Asid	Calcurioss, Yallow or Red Crystals	Airid
Explosive Precursor Chemicals	Hiteanethere	Colouriess Only Esquid	Berset/Fruit
	Parchierie Acid	Colourless Eignid	Odesdass
	Petersion Charate	White Crystals	Odourlass
	Petersion Nitrate	White Crystells	Odeurless
	Patentine Minine	Yellow/White Crystalia	Odeorless
	Patention Panidaren	White/Colombes Crystals	Odeorless
	Sedion Aside	White Crystalis	Odeurlass
	Sedion Chlorate	White Crystale	Odestass
	Sedim Niver	White Crystals	Oderriess
	Sedion Ninin	Tellere/White Crystals	Odeurlass
	Sediom Perchlaruna	White Crystale	Odewless
	Sulphonia Acid	Colourbus Liquid	Rotten Eggs
	Urest	White Crystalia	America
	AreteAdd	White Crystale	Vineger
	Ababal (Sriessel, Methernit)	Calcuriosa Ligaid	Odeurlass
	Anything Columbs or Perchlarate	A STATE OF THE PARTY OF THE PAR	
	Anything Nitrate		
	Caking Hyper March /HyperMarite	White Greenbee	Blace h/Oderica
	Gels Aud	White Crystale	Odestless or Lemma
	Ediplana Olycal	Colourious Liquid	Odeerless
ADDITIONAL EXPLOSIVE CHEMICALS	Olymerica	Calcurious Liquid	Odeorless
ADDITIONAL EXPLOSIVE CHEMICALS	Hydrachleric Acid	Calcurious Liquid	Bloom h / Chilerina
Raise concern if found in any quantity	Load Nitrate	White Powder	Odestina
	Manuary	Silven/Over Liquid	Odesriasa
	Markyl Ethyl Rature	Colourlass Liquid	Bernet
	Pentuncyslutted	White Crystale	Odeorlass
	Patassium Permangunate	Purple/Ensury/Overy	Odesriess
	Pero dered Metals (Aluminium (Al.). Hespresium (Mg), Megasilium (Al.). Mg) Zim (Ze)		
	Sulphur	Tallan Crystals	Ratters Eggs





Questions?