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CBRN Conference

Ian TIPPETT Specialized Officer CMX

November 2019





Glastonbury Festival



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4 March 2018, 2.20pm

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



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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.



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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.



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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.



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14 July 2018

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



Modified plastic nozzle allowed attackers to squirt Novichok without getting it on their hands

Glass bottle, although the deadly nerve agent can be stored in any sealed container

Attackers put perfume branding on the side to disguise chemical as Nina Ricci scent

Investigators found 'significant amount' of Novichok in bottle. Unlike other nerve agents, it is stable and does not break down quickly



© Metropolitan Police via Getty Images



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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.



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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.



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‘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.’



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Chemical decontamination was selected for Operation Morlop. Enzymes work best in ‘less-aggressive 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



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IED containing HME and Aluminum Phosphide tablets. On detonation, the heat reacts with the Aluminum Phosphide and produces Phosphine gas



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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.



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Other achievements include...

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



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OPERATIONAL ANALYSIS
IRT Colombo
CBRNE Intelligence Notification

Classification: INTERPOL for official use only
Publication Date: 4 May 2019
Sub-Directorate: Terrorist Networks/IRT COLOMBO
Report Reference: 2019/248/CT/TN/IT
Releasable to: All INTERPOL Member Countries

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The information contained within this report may be used solely by national law enforcement agencies in order to further investigations and/or for international police cooperation purposes. Any intelligence herein should not be construed as being of evidential value or for use in judicial proceedings. Decisions or actions

OPERATIONAL ANALYSIS
IRT Colombo
CBRNE Intelligence Notification 2

Classification: INTERPOL for official use only
Publication Date: 13 May 2019
Sub-Directorate: CBRNE / IRT COLOMBO
Report Reference: 2019/248/CT/TN/IT
Releasable to: All INTERPOL Member Countries

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REQUEST FOR PUBLICATION OF A PURPLE NOTICE

Control No.: [Keywords]
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 (NTJ)

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MODUS OPERANDI

Type(s) of offence: Chemicals and Improvised Explosive Device Components stored by Sri Lankan based terrorist group National Thowheeth Jama'ath (NTJ)
Date of the offence: 21 April 2019





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Incident Exhibit Book

URN:



C100150E

Incident or Operation Reference

Contaminated Crime Scene Y N
If Yes name contaminate(s):

Book No

of

Award winning film (Cannes & New York) – LITMUS



Interpol film shows how to recognise homemade explosives





CHEMICAL WARFARE AGENTS

The following descriptions include odour, DO NOT and NEVER intentionally smell/sniff unknown chemicals. The descriptions are recorded in case you become aware of a similar odour 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
Nerve	GA	TABUN	Colourless or Brown Liquid	Liquid/Gas	Fruity	Ping-pong balls, ringing ears, dizziness, vomiting, tightness in chest, muscle twitching, loss of consciousness, coma, death.
	GB	SARIN	Colourless Liquid	Liquid/Gas	Odourless	V Series Nerve Agents: Nervous System
	GD	SOMAN	Colourless Liquid	Liquid/Gas	Campfire (Mustard)	Sarbanon EX, A190, A331, A334 etc, agents that were developed but not detected by conventional detection, identification and monitoring (DIR) equipment.
	GP	CYCLOSARIN	Colourless Liquid	Liquid/Gas	Forest & Musty	
	GE	VE	Colourless Liquid	Liquid/Gas	Odourless	
	VE	(VE)	Colourless Liquid	Liquid/Gas	Odourless	
	VG	AMBIPHILIC TERPENS	Colourless Liquid	Liquid/Gas	Odourless	
Choking	CG	PHOSGENE	Colourless Gas/Yellow Liquid	Gas	Strong smell of Wood/Hay	Coughing, eye, nose, throat irritation, shortness of breath, heavy exhalation on feeling of suffocating or drowning, death.
	DP	DIPHOSGENE	Colourless Liquid	Vapour/Liquid	Strong smell of Wood	
	CL	CHLORINE	Yellow/Green Gas	Gas	Musty	
		PHOSPHORUS OXIDE	Colourless Gas	Liquid/Gas	Strong Urine smell	
		PHOSPHORUS TRICHLORIDE	Colourless Gas	Liquid/Gas		
		PERFLUOROBENZENE	Colourless Gas	Liquid/Gas		
		ACETOQUIN/PROPENAL	Colourless Liquid			Acid smell of Burned Fat
Blister	CX	PHOSGENE OXIME	Solid	Aerosol	Unpleasant	
	HD	ETHYLENEDICHLORARINE	Liquid	Liquid/Aerosol	Fruity	Watery and itchy eyes, runny nose, hoarseness or burning cough, initial redness of skin, followed by blisters.
	HD	DISTILLED MUSTARD	Colourless or Yellow Liquid	Liquid/Gas	Mustard/Sour	Mustard has NO immediate effect.
	HL	MUSTARD LEWISITE	Liquid	Liquid	Mustard/Sour	
	HN-1	NITROGEN MUSTARD ONE	Oily Colourless Liquid	Liquid/Gas	Fish	Lewisite leads to immediate pain.
	HN-2	NITROGEN MUSTARD TWO	Oily Colourless Liquid	Liquid/Gas	Fish	Skin effect varies with agents.
	HN-3	NITROGEN MUSTARD THREE	Oily Colourless Liquid	Liquid/Gas	Fish & Soap	
	L	LEWISITE	Colourless or Amber Liquid	Liquid	Flowers	
Blood	AC	HYDROGEN CYANIDE	Colourless Liquid or Gas	Gas	Almond	Heavy breathing or convulsions, unconsciousness, convulsions, headache, death.
	CA	CYANOPHEN CHLORIDE	Colourless Liquid or Gas	Gas	Fat or Almond	
	SA	ARSENIC	Gas	Gas	Sour	
Incapacitant/Hallucinogen	BZ	BZ, BUZZ or AGENT 15	White Crystals	Gas	Odourless	Hallucinations; agitation, dilated pupils.
	SN	PHENCYCLIDINE (PCP)	White Crystals	Gas	Odourless	
	K	LSD	Liquid	Gas	Odourless	



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EXPLOSIVE 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 odour description is included to provide early indication warning only.

	Name	Description	Odour
Explosive Precursor Chemicals	Acetic Anhydride	Colourless liquid	Vinegar
	Acetone	Colourless liquid	Fruit/Nail Varnish Remover
	Aluminium Powder	Silver/Grey Powder	Odourless
	Ammonium Nitrate	Colourless	Ammonia
	Ammonium Perchlorate	Grainy White Powder	Odourless
	Barium Nitrate	White Crystals	(Not Documented) Highly Toxic
	Calcium Ammonium Nitrate	Colourless liquid	Ammonia
	Guamidine Nitrate	Colourless Crystals	Odourless
	Hexamine	Waxy Solid	Mild Ammonia
	Hydrogen Peroxide	Colourless liquid	Odourless
	Nitric Acid	Colourless, Yellow or Red Crystals	Acrid
	Nitrosourea	Colourless oily liquid	Sweet/Fruit
	Perchloric Acid	Colourless liquid	Odourless
	Potassium Chlorate	White Crystals	Odourless
	Potassium Nitrate	White Crystals	Odourless
	Potassium Nitrite	Yellow/White Crystals	Odourless
	Potassium Perchlorate	White/Colourless Crystals	Odourless
	Sodium Azide	White Crystals	Odourless
	Sodium Chlorate	White Crystals	Odourless
	Sodium Nitrate	White Crystals	Odourless
	Sodium Nitrite	Yellow/White Crystals	Odourless
	Sodium Perchlorate	White Crystals	Odourless
	Sulphuric Acid	Colourless liquid	Rotten Eggs
	Urea	White Crystals	Ammonia
ADDITIONAL EXPLOSIVE CHEMICALS Raise concern if found in any quantity	Acetic Acid	White Crystals	Vinegar
	Alcohol (Ethanol, Methylated)	Colourless liquid	Odourless
	Anything Chlorate or Perchlorate		
	Anything Nitrate		
	Calcium Hypochlorite/Hypochlorite	White Granules	Bleach/Chlorine
	Citric Acid	White Crystals	Odourless or Lemon
	Ethylene Glycol	Colourless liquid	Odourless
	Glycerine	Colourless liquid	Odourless
	Hydrochloric Acid	Colourless liquid	Bleach/Chlorine
	Lead Nitrate	White Powder	Odourless
	Mercury	Silver/Grey liquid	Odourless
	Methyl Ethyl Ketone	Colourless liquid	Sweet
	Pentamethylal	White Crystals	Odourless
	Potassium Permanganate	Purple/Brown/Grey	Odourless
Powdered Metals (Aluminium (Al), Magnesium (Mg), Manganese (Mn), Zinc (Zn))			
Sulphur	Yellow Crystals	Rotten Eggs	



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Questions?