# INCB Precursors Control Section Precursor and chemical trends in illicit drug manufacturing

Virtual Chemical Industry Conference
22 July 2025



### Mandate and functions of INCB

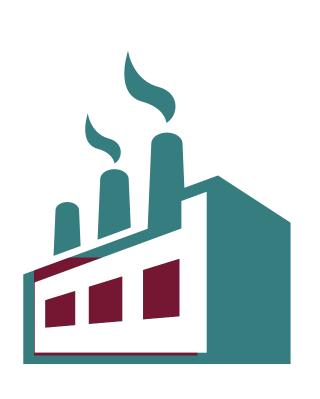


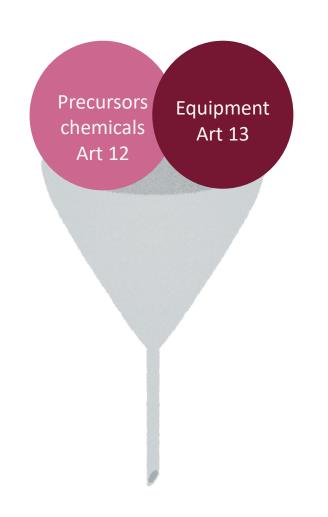
An independent and quasi-judicial monitoring body for the implementation of the United Nations international drug control conventions.

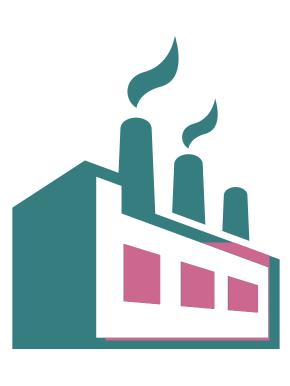
- Established in 1968 by the 1961 Single Convention on Narcotic Drugs
- 13 members, elected by Economic and Social Council (ECOSOC)
  - 3 nominated by WHO
  - 10 nominated by Governments
- Term of office: 5 years, may be re-elected
- Serve impartially in their personal capacity, independently of Governments
- Secretariat in Vienna, Austria



# Illicit drug manufacture









# International drug precursor control – legal basis

• UN Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances of 1988



191 States and EU (near universal adherence)

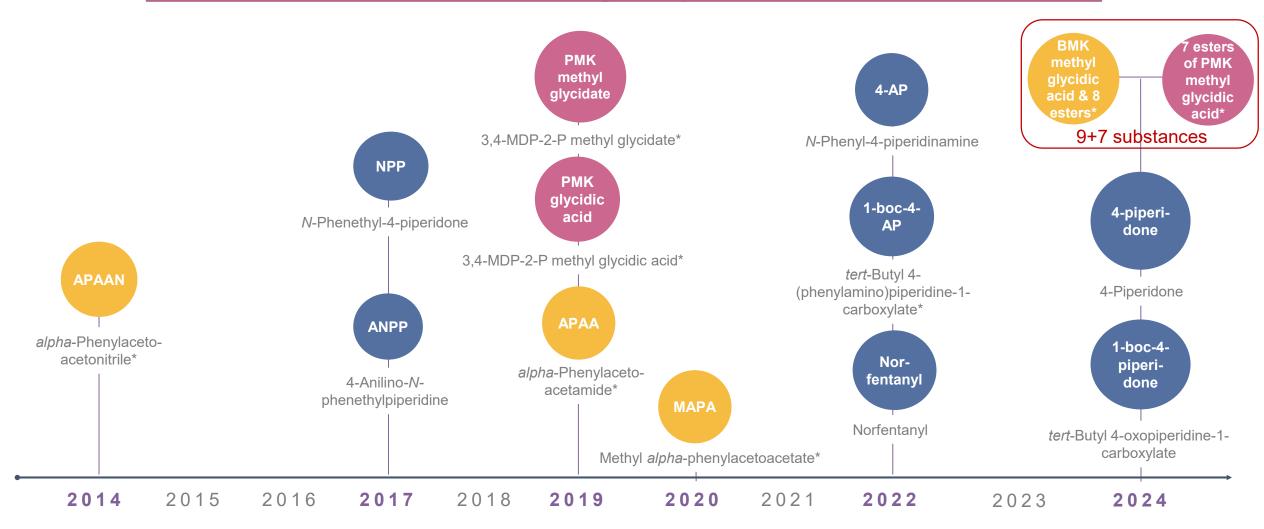
#### **Article 12**

- Set of measures to monitor international trade; cooperate with industry & each other; provide for seizures; PENs upon request (Paras.9-10)
- Set of measures to monitor domestic manufacture and distribution (Para.8)
- UN resolutions (recommended; not binding)
- National legislation

#### Article 13

 Requests Parties to take such measures as they deem appropriate to prevent trade in and the diversion of materials and equipment for illicit production or manufacture of narcotic drugs and psychotropic substances and cooperate to this end.

# International scheduling of precursors since 2014









## International trade monitoring

PEN Pre-Export Notification Online

(Table I and Table II substances)



- 1 Launched in 2006
- It is the **only** global system for monitoring international legitimate trade in precursors
- 3 Only available for competent national authorities (CNA).

### **Statistics up-to-date**

- Registered users from 170 countries and territories.
- About **500,000 PENs** since its launch in 2006, with **85%** of notifications viewed.
- 3 30,000 **35,000** PENs every year.



The PEN Online system is INCB's online platform for the real-time exchange of pre-export notifications (PENs) of precursor chemicals (art. 12, 1988

Convention).

### **SUCCESS STORIES**

In **2024**, PEN Online monitored nearly 28,000 shipments of 32,000 tons and 5 billion litres of controlled precursor chemicals.

In **2025**, 3 tons of the fentanyl precursor, 1-boc-4-piperidone, (equivalent to 1.4 - 3.3 tons of fentanyl) prevented from being diverted into illicit channels, because of use of PEN Online.

# International trade monitoring



(Chemicals **not** in Table I and Table II)



- 1 Launched in 2022.
- Focus on planned exports of chemicals not included in Table I and II of the 1988 Convention, but that might be controlled nationally.
- 3 Voluntarily used by national authorities.

### **Statistics up-to-date**

- Active users from 80 countries and territories.
- 2 2,400 "light" PENs sent



PEN Online Light allows
countries to exchange, on a
voluntary basis, pre-export
notifications of chemicals that
are not controlled under
article 12 of the 1988
Convention.

### **SUCCESS STORY**

In 2024, the PEN Online Light tracked over 700 shipments of more than 136,000 tons and more than 3 million litres of internationally non-controlled precursor chemicals.



# Annual legitimate requirements (ALRs)

- A yardstick for exporting countries on the needs for ATS precursors in importing countries
  - <u>Industry input</u>: estimated annual legitimate requirements

Annual legitimate requirements (ALR) as reported by Governments for imports of ephedrine, pseudoephedrine, 3,4-methylenedioxyphenyl-2-propanone, 1-phenyl-2-propanone and their preparations

(Figures rounded up)

Status: 17 April 2025

Ephedrine

Ephedrine

Pseudoephedrine

3.4

ACRC

ACRC

Status: 17 April 2020					<u> </u>	<i>/ / / / / / / / / /</i>	
Country or territory	Ephedrine (kilograms)	Ephedrine preparations (kilograms)	Pseudoephedrine (kilograms)	Pseudoephedrine preparations (kilograms)	3,4-, (litro	ALRs for over countries	
Afghanistan	0	100	600	600	6	Collegater	70
Albania	35	3	100	3	0	"Itria"	40
Algeria	20	8	14 536	29 300	0	.62	
Argentina	54	0	29 000	180	0		
Armenia	0	0	0	0	0	0	
Ascension	0	0	0	0	0	0	
Australia	2	14	6 600	2 400	0	1	
Austria	415	123	1 474	0	1	1	
Azerbaijan	20	18	10	360	0	0	
Bahamas	0	10	0	250	0	0	
Bahrain	1	2	1	1 000	0	0	
Bangladesh	200		0		0	0	
Barbados	200		200	58	0 °C		
Belarus		5	10	5	0 °C		
Belgium	100	100	9 000	9 000	1	1	
Belize			Р	Р	0 °		
Benin	2	2	8	19	0 c		
Bhutan		1			0		
Bolivia (Plurinational State of)	26	1	4 833	2 227	0	0	
Bosnia and Herzegovina	5	0	3 800	816	0	0	
Botswana		1			0 °		
Brazil	1 000 <sup>d</sup>	0	30 000 d	1	1	1	
Brunei Darussalam	0	400	0	144	0	0	
Bulgaria	1 700	296	20	0	0	0	
Burundi		5		15	0 °		

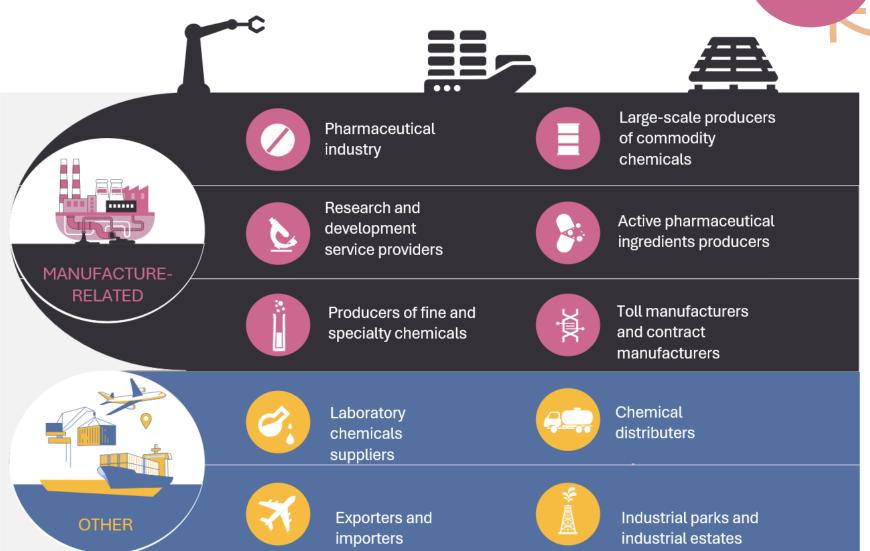
https://www.incb.org/incb/en/precursors/alrs.html



# Cooperation with industry

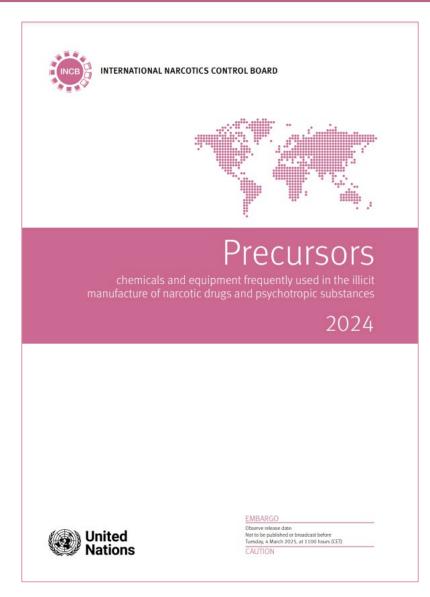
Competent National Authorities

Industry





# Trends in illicit drug manufacturing



# PRECURSORS OF AMPHETAMINE-TYPE STIMULANTS (ATS) EPHEDRINE, PSEUDOEPHEDRINE AND PREPARATIONS



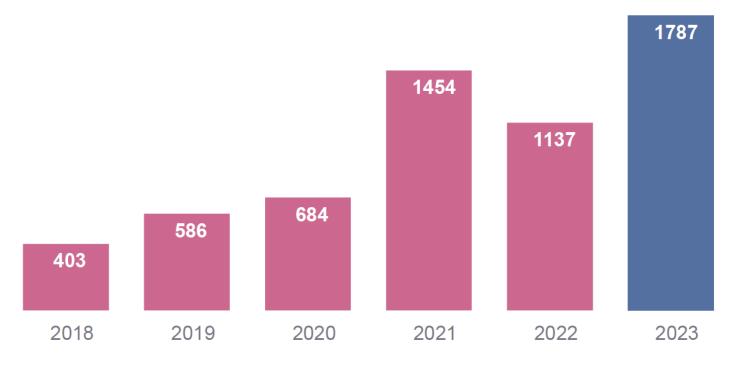
### MAJOR TRENDS

- Quantities of pharmaceutical preparations containing pseudoephedrine seized continue to increase. See graph.
- At over 15 tons, the global quantity of ephedrines (i.e. ephedrine and pseudoephedrine in all forms) seized in 2023 surpasses the quantities seized in the previous two years combined.

### ACTION

In view of incidents related to the diversion of and trafficking in ephedrine and pseudoephedrine, three-month long INCB's Operation "Pseudonym" was carried out from October to December 2024. The operation focused on international and, where possible, domestic trade in ephedrine and pseudoephedrine. 60 countries and territories, and four international or regional organisations participated in the operation.

#### SEIZURES OF PHARMACEUTICAL PREPARATIONS CONTAINING PSEUDOEPHEDRINE (KG)



# PRECURSORS OF AMPHETAMINE-TYPE STIMULANTS (ATS) CLOSELY RELATED ATS DESIGNER PRECURSORS

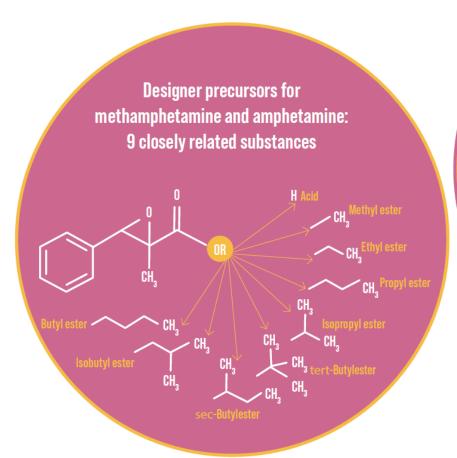


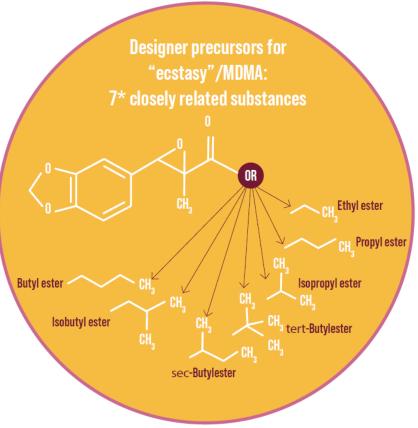
### FACT

Several closely related chemicals could potentially be used by drug traffickers to circumvent existing controls.

### **ACTION**

Following an INCB recommendation, two groups of closely related ATS designer precursors - 16 substances in total- were placed into Table I of the 1988 Convention on 3 December 2024 following unanimous decisions by the Commission on Narcotic Drugs. See graph.





\* The acid and methyl ester have been under international control since November 2019.

### FENTANYL PRECURSORS

### SEIZURES OF FENTANYL PRECURSORS AS REPORTED BY GOVERNMENTS ON FORM D, 2016-2023

# INCB

### MAJOR TRENDS

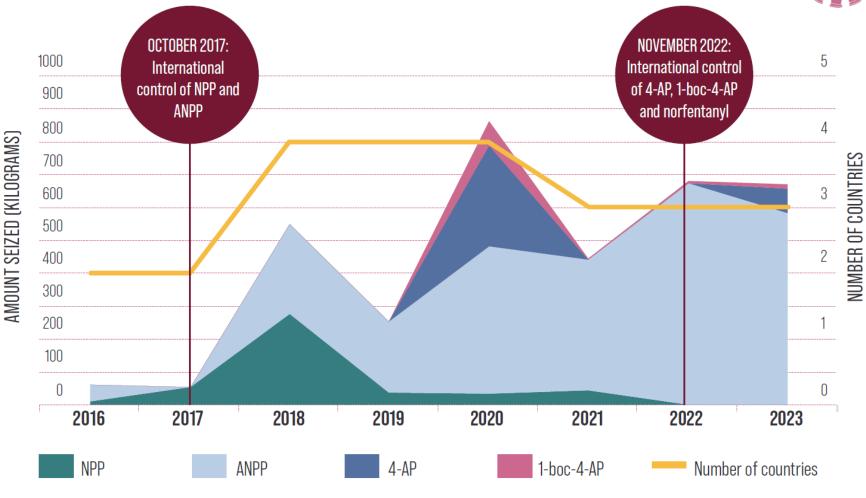
 ANPP was the most frequently seized fentanyl precursor under international control, with a total of more than 580 kg seized.

### See graph→

 Seizures of fentanyl precursors are no longer limited to North America. In 2024, first seizures reported in Europe.

### ACTION

Two fentanyl precursors were placed in Table I of the 1988 Convention on 3 December 2024 following unanimous decisions by the CND.



### HEROIN AND COCAINE PRECURSORS



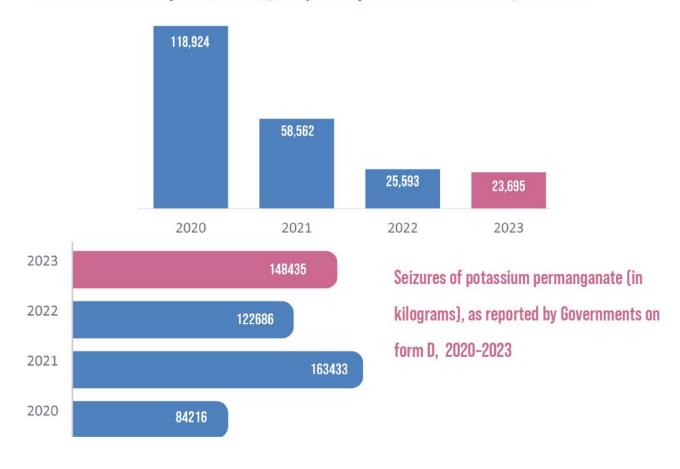
### TRENDS IN HEROIN PRECURSORS

- The total amount of acetic anhydride seized worldwide, according to information provided by Governments on form D, has continued to decline. See graph
- Trafficking in acetic anhydride destined for Afghanistan continues, albeit on a smaller scale. There is a lack of data on this matter.

### TRENDS IN COCAINE PRECURSORS

- On form D, 15 countries and territories reported seizures of potassium permanganate amounting to more than 148 tons.
   See graph >
- As in previous years, the largest seizures of potassium permanganate were reported by countries in South America, which cumulatively accounted for around 98 per cent.

Seizures of acetic anhydride (in litres), as reported by Governments on form D, 2020-2023





# Monitoring/surveillance lists (non-scheduled chemicals)

Version: 2025\_01 (Includes updates received until 30 April 2025)

For official use only - not for public distribution

Information package

on the

CONTROL OF PRECURSORS

Part B: Limited International Special Surveillance List



### **ISSL**

- Precursors, reagents and other chemicals used in the illicit manufacture of synthetic drugs, cocaine and heroin
- Extended definitions that capture common derivatives as well as other related substances that can be converted into one of the scheduled precursors
- List of recommended actions to be taken by CNAs and industry to prevent the diversion of substances included on the list
- Provisions of the three drug control conventions and relevant resolutions of intergovernmental bodies that might be applied to non-scheduled chemicals
- Latest additions (2024/2025):
  - Frequently seen precursors for NPS
  - Frequently seen cutting agents, adulterants and excipients
  - Nitazene precursors



# Latest resources and tools

Conference room paper submitted by INCB: "Guiding Industry Partnerships:
 A Policy Framework for Preventing Chemical Diversion"

(Publicly available: https://www.unodc.org/documents/commissions/CND/CND Sessions/CND 68/CRP/ECN72025 CRP8 e.pdf)

Compendium of national drug precursor legislation and domestic controls

(Available to and through CNAs: https://www.incb.org/incb/en/precursors/information-package-part-a.html)

List of chemical relatives of controlled precursors and substitute chemicals

(Available to and through CNAs: https://www.incb.org/incb/en/precursors/information-package-part-b-issl.html)

**INCB TOOLS AND RESOURCES ON IMPLEMENTING ARTICLE 12 OF THE** 1988 CONVENTION



Click on the plus sign

**Precursors Annual** 

Report



PEN Online and model forms invoking article 12, para 10 (a)





Form D and Red List







**CNA Reference Material**, including Information Package and ISSL





PICS, Projects Cohesion and Prism





**Annual Legitimate** Requirements (ALRs), related guidance notes and e-learning module





Precursors module in the **UN Toolkit on Synthetic** Drugs









INCB TOOLS AND
RESOURCES ON
NON-SCHEDULED
CHEMICALS
AND DESIGNER
PRECURSORS



INTERACTIVE PDF
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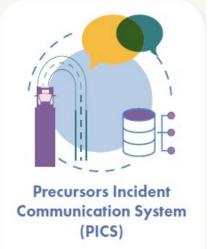
INCB guidance document on nonscheduled chemicals





Pre-Export Notification Light (PEN Online Light) system













Industry guidelines package





Precursor Chemical Monographs 2020





Precursors Module of the UN Toolkit on Synthetic Drugs





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RESOURCES ON
PUBLIC-PRIVATE
PARTNERSHIPS (PPP)
AND INDUSTRY
COOPERATION



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Brochure on public-private partnerships: concept and related activities in precursor control





Guidelines for a voluntary code of practice for the chemical industry





Practical notes for implementing the INCB guidelines for a voluntary code of practice for the chemical industry, and a model MoU





ISSL and Precursor Chemical Monographs 2020



Quick guide for development and implementation of a voluntary code of practice for the chemical industry



Global review of categories of industries involved in the manufacture, trade and distribution of chemicals used in the illicit manufacture of drugs





National practices related to public-private partnerships (PPP) in the area of drug precursors and nonscheduled chemicals









# Thank you

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