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TOX STAMMTISCH

# Synthetische Cannabinoide – Status 2026

Ing. Christian Fuczik, 22.09.2026

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## (Semi) Synthetische Cannabinoide in Vapes

2020

LKA NRW warnt vor medizinischen Notfällen beim Konsum von E-Zigaretten mit illegalen Liquids

2025/09

BBC: 'I feared I'd find her dead in bed' - teens harmed by spice-laced vapes

2025/09

DocCheck: „Görke“: Klingt lustig – kann töten

2025/09

Deutschlandfunk: „Spice“ statt Nikotin: Experten warnen vor illegalen Vapes mit synthetischem Cannabis

2025/09

University of Bath: Up to 1 in 4 vapes confiscated in schools contains spice - and these are pushed on social media

2025/12

Polizei Hessen: „Baller-Liquid“ und „Görke“ – Warnung vor Konsum berauschender Vape-Substanzen

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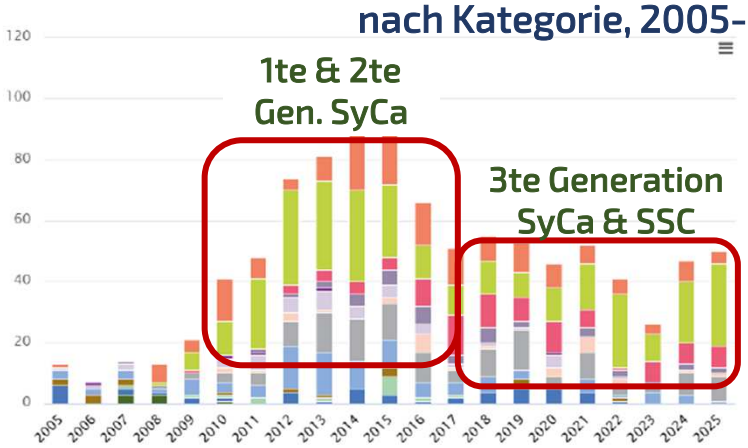
## Anzahl der dem EU-Frühwarnsystem erstmals gemeldeten neuen psychoaktiven Substanzen, nach Kategorie, 2005-2025




Quelle: EUDA EUROPEAN UNION DRUGS AGENCY

Letzte Aktualisierung: 9. Juni 2026

Im Jahr 2025 gingen beim EU-Frühwarnsystem Meldungen von über 27 neuen Cannabinoiden ein, wodurch sich die Gesamtzahl der überwachten Cannabinoide auf 304 erhöhte.

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# SyCa & SSC

### Synthetische Cannabinoide (SC, SyCa, SCRA)

- Spice, JWH018, UR144, … (1te & 2te Gen.)
- 3te Generation:
  MDMB-4en-PINACA
  MDMB-CHMINACA
  ADB-BUTINACA
- Wirken am Cannabis Rezeptor (CB1)
- Durch Synthese hergestellt
- Seit ca. 2010 am Markt
- Unterliegen tw. dem **SMG**. (Substanzen, die in der SV gelistet sind, fallen immer unter das SMG – siehe § 2 Abs. 2 NPSG bzw. § 3 Abs. 3 Z 2 NPSG )

### Semi Synthetische Cannabinoide (SSC)

- HHC, HHCP, 10-OH-HHC, THCP, etc.
- Wirken am Cannabis Rezeptor (CB1)
- Meist aus natürlichen Cannabinoiden (CBD od. THC) durch Hydrierung bzw. Umlagerung, etc. hergestellt
- Seit ca. 2019 in Ö am Markt, nach Erlass vom 22.3.2023 stark zurück gegangen
- Unter liegen dem **NPSG** (Grundstruktur gelistet in Anlage II Abs 1 Lit l NPSV)

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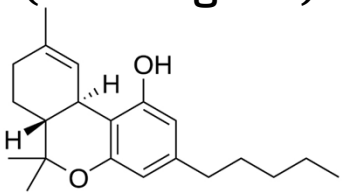
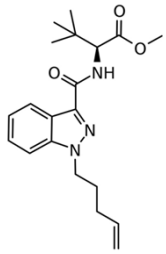
# SyCa vs SSC

## D9-THC (das Original)

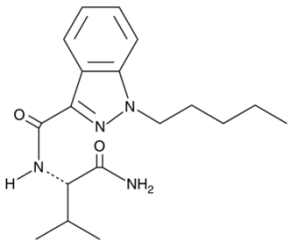



## SyCa

MDMB-4en-PINACA

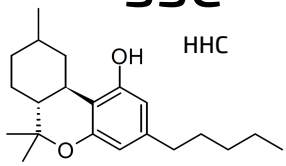



AB-PINACA

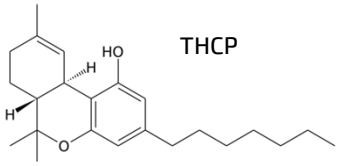



## SSC

HHC




THCP

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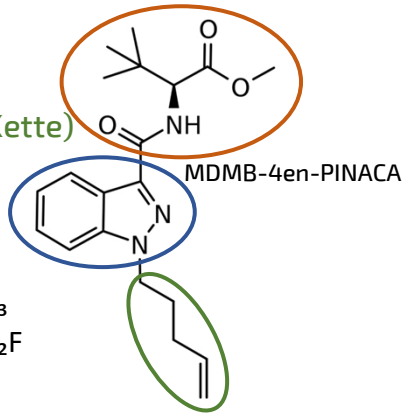
# Nomenklatur

PINACA? BUTINACA? FUBINACA?

MDMB-4en-PINACA

- INACA: Kernstruktur (Indazol-3-Carboxamid)
- 4en-P: N-1-Seitenkette (ungesättigte Pent-4-enyl-Kette)
- MDMB-: Kopfgruppe




MDMB-4en-PINACA

| Bezeichnung | N-1-Seitenkette | Strukturmerkmal |
|---|---|---|
| BUTINACA | n-Butyl | $-CH_2-CH_2-CH_2-CH_3$ |
| PINACA | n-Pentyl | $-CH_2-CH_2-CH_2-CH_2-CH_3$ |
| 5F-PINACA | 5-Fluorpentyl | $-CH_2-CH_2-CH_2-CH_2-CH_2F$ |
| FUBINACA | 4-Fluorbenzyl | $-CH_2-C_6H_4-F$ |
| CHMINACA | Cyclohexylmethyl | $-CH_2-C_6H_{11}$ |

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# Welche SyCa sind in Europa am Markt vertreten?

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RESEARCH REPORT

ADDICTION SSA

## Synthetic cannabinoids in e-cigarettes seized from English schools

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**Abstract**

**Background and aims:** People who use synthetic cannabinoids (SCs) report debilitati
side effects and withdrawal symptoms, coupled with dependence. In the UK, SC use w

FIGURE 1 Media reports of adverse effects in schools associated with vaping and putatively associated with synthetic cannabinoids (SC) use.

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# Welche SyCa sind in Europa am Markt vertreten?

## Synthetic cannabinoids in e-cigarettes seized from English schools

Setting and cases: **512 Samples** were submitted from **27 secondary (age 11–18) schools** from geographically distinct regions of England, representing a broad range of social metrics (free school meals, persistent absenteeism and special educational needs).

Findings: E-cigarettes containing SyCa were identified in **77.8% of all participating schools** and were detected in **89 (17.4 %) of all samples** seized. These were almost entirely in refillable devices and liquid bottles, with very few in single use products.

Analytical Results:
Controlled drugs identified by LC–MS were **six different SyCa:**
**MDMB-4en-PINACA | MDMB-PINACA | ADB-BUTINACA**
**MDMB-BUTINACA | MDMB-INACA | 4F-MDMB-BUTINACA**
THC and heroin.
**No other SyCa or controlled drugs were found.**

FIGURE 1 Media reports of adverse effects in schools associated with vaping and putatively associated with synthetic cannabinoids (SC) use.

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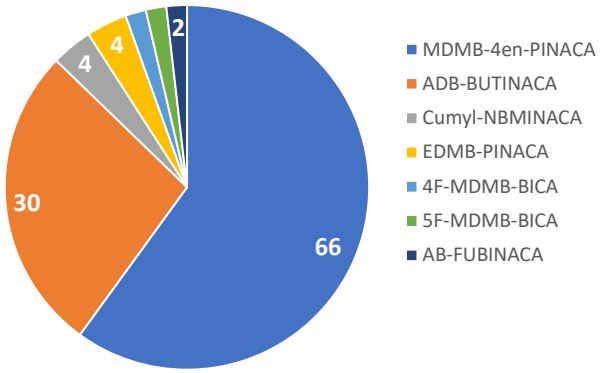
## Welche SyCa sind in Europa am Markt vertreten?

Auwärter et al. 2024, Zeitschrift für Verkehrssicherheit

Untersuchungen aus dem Jahr 2021

- 1100 Urinproben von 498 Individuen
  - Gerichtliches Abstinenzprogramm: 530
  - MPU-Abstinenzprogramm: 467
  - Sonstige Proben: 103
- Resultate:
  - THC positiv: 213 (19,4 %)
  - SyCa positiv: 53 (4,8 %)
- Nur 7 verschiedene SyCa gefunden
- Folgejahr 2022 starker Rückgang der Positivitätsrate

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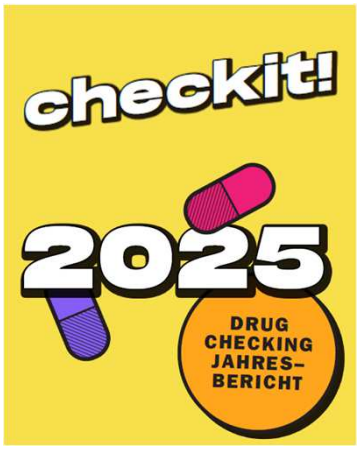
## Welche SyCa sind in Europa am Markt vertreten?




- 2.464 Proben zur Analyse abgegeben
- 42x Fragestellung Cannabis/Cannabisprodukt
- 17 der 42 Proben (41 %) enthielten SyCa/SSC
- 8 verschiedene SyCa/SSC identifiziert:
  MDMB-PINACA (9x), MDMB-4en-PINACA (7x),
  AB-CHMINACA, ADB-BUTINACA, EDMB-PINACA,
  MDMB-INACA, MDMB-BUTINACA, SSC