

**“From Crunk
to Drunk”**

Synthetics and Beyond

The Attraction of Synthetic Drugs

- Easily available via the Internet or retail outlets
- Intense and quick effects that can last anywhere from 15 minutes to several hours
- Undetectable using standard drug test
- Strong perception that they are “safer” than other drugs

Synthetic Cannabananoids

- K2/Spice – synthetic MJ, dried herbs soaked in liquid compound, seizures, aggression, psychosis, smoked, sold as herbal incense
- Wax/DABS – butane hash oil, strongest form of THC, natural, \$50 per gram, smoked in pipe or vape, can cause psychosis
- Transdermal patches – similar to nicotine patch, not marked, slow release high, \$15-20
- THC Puppy Chow – THC/Hash oil added to butter and chocolate and poured onto ‘party mix’



K2/Spice

- Unregulated mixture of dried herbs/looks like “potpourri”, also available in liquid form to “vape”
- Ingredients are commonly listed as “Indian Warrior” and “Wild Dagga” or “Lion’s Tail”
- No mention of additives or other compounds that have a pharmacological activity
- Five most common compounds are considered Schedule 1 drugs and are illegal.
- Does NOT show up in tests for Cannabis, must use a specific test.
- Mainly smoked and sometimes mixed with marijuana or can be soaked to make a tea and drunk.

Effects of K2

- They work just like marijuana!
- They bind to chemical receptors (CB₁) in the central nervous system designed to bind with natural endocannabinoids manufactured by your body and are responsible for physiological processes:
 - Appetite
 - Mood
 - Memory
 - Pain Sensation
- Habit forming, addictive and can cause
 - hallucinations
 - severe agitation
 - elevated heart rate
 - elevated blood pressure
 - red eyes
 - mood alteration
 - paranoia

Packaging



Photo: opti@informationon.com



Synthetic Stimulants

- Cathinones – similar to Meth and Cocaine, can have a hallucinogenic effect, analog of Khat plant
 - Bath Salts – cheap substitute, white or brown crystal powder, inhaled/smoked
 - Alpha PVP/Gravel/Flakka – hallucinations, high pain tolerance, injected/smoked, \$80-\$200 gram, highly aggressive behavior
 - Pump it Powder – new on market, Geranamine, aka methylhexanamine, active ingredient is legal, \$30 per tin
 - MXE – new on market, similar to Ketamine, hallucinogenic dissociative, white powder, inhaled



Bath Salts

What is it?

- MDPV is structurally related to cathinone, an active alkaloid found in the khat plant, which is illegal in the United States.
- Mephedrone and MDPV are stimulants that act much like Methamphetamine and Cocaine, but produce the added effect of hallucinations.
- Common fillers found to be chemicals used in insecticides to kill algae and fungus
- Sold on-line with little info on ingredients, dosage, etc.
- Advertised as legal highs, legal meth, cocaine, or ecstasy
- Labeled “not for human consumption” to get around laws prohibiting sales or possession

Street Names

Alternate Names For

BATH SALTS

| | | | |
|---------------------|--------------------------------|--------------|-----------------|
| ARCTIC BLAST | COTTON CLOUD | MYSTIC | WHITE GIRLS |
| BAYOU IVORY FLOWER | DYNAMITE DYNAMITE PLUS | OCEAN SNOW | WHITE HORSE |
| BLOOM | ENERGIZING AROMATHERAPY POWDER | PURE WHITE | WHITE KNIGHT |
| BLUE MAGIC | EUPHORIA | RED DOVE | WHITE LIGHTNING |
| BLUE MAGIC | GOLD RUSH | ROUTE 69 | WHITE RUSH |
| BLUE SILK | HURRICANE CHARLIE | SCARFACE | WICKED X |
| BOLIVIAN BATH | IVORY FRESH | SNOW DAY | WICKED XX |
| BONSAI WINTER BOOST | IVORY WAVE | SNOW LEOPARD | ZOOM |
| C ORIGINAL | IVORY WAVE ULTRA | TRANQUILITY | |
| CLOUD 10 | LADY BUBBLES | VANILLA SKY | |
| CLOUD 10 ULTRA | LUNAR WAVE | WHITE CHINA | |
| CLOUD 9 | MR. NICE GUY | WHITE DOVE | |

Effects of Bath Salts

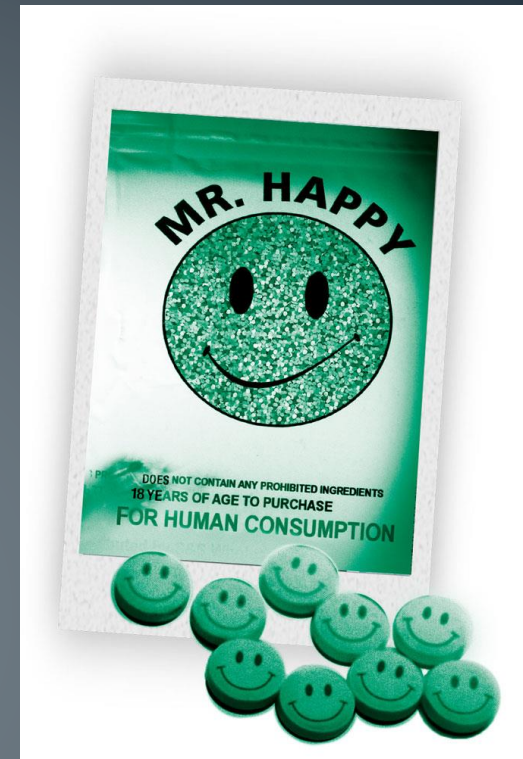
- Intense high with combined hallucinogenic and amphetamine effects “like smoking meth, dropping acid and taking ecstasy, all at the same time.”
- Visual and sensory distortions. hallucinations
- Intense dissociation and altered perceptions of reality
- Physical or visual impairment
- Aggressive, violent and self harming behaviors reported
- Hallucinogenic effect and corresponding behaviors can last several hours.
- Synesthesia is possible, where physical sensations become intertwined and it is possible to “hear” colors or “smell” sounds
- Dysphoria, where users felt uncomfortable or unpleasant after the drug's use, is also reported
- Serious side effects include tachycardia, hypertension, confusion or psychosis, nausea, convulsions
- Can be smoked, snorted or in some case injected

Packaging



Psychedelic Phenethylamines

- Street name is “Smiles”, “N Bomb” or 2C-I
- Available in powder form, blotter or tablet. Usually snorted, can be smoked, injected or ingested with food.
- Have hallucinogenic and stimulant effects which mimic LSD and amphetamines taken together.
- Side effects are rapidly increased heart rate, high blood pressure, nausea, vomiting and sweating.
- Overdose can be easy due to unknown ingredients and inability to control amount or know how much to take.



- Phenethylamines – hallucinogenic and euphoric combined with an amphetamine effect
 - Molly – purest form of MDMA (Ecstasy), psychoactive of amphetamine/phenethylamine, used before injecting heroin (intense euphoria)
 - 2C-I/India – more popular than Bath Salts, oral pill, injected, snorted, smoked, taken rectally, effects similar to LSD
 - Benzo Fury – marketed as mescaline, taken in pill form, euphoric and increase in energy
 - N-bomb/Smiles – liquid/blotter/powder/edible, similar to mescaline and LSD, increased aggression and paranoia

| Drug | Dosage | Street Price |
|-----------------|---------------------------------|---------------|
| 2CB | 16-24 mg pill | \$10-\$30 |
| Adderrall | 10mg pill | \$20-\$25 |
| Sudafed | 30mg tablet makes 10- 20mg meth | \$25-\$30 box |
| Methamphetamine | 1/4 g bag | \$20-\$30 |
| MDMA | 75mg pill | \$10-\$20 |
| Mescaline | 1g pure | \$20-\$30 |

GRAVEL aka Flakka

- Highly addictive synthetic stimulant
- Combination of Bath Salts, Methamphetamine and in some cases Crack Cocaine. Some reported cases containing rat poison and/or drain cleaner.
- Most reported cases coming out of Ohio and Tennessee.
- Causes severe paranoia and agitation, violent behavior, high blood pressure and heart attack.
- Can be snorted, injected and smoked.
- Current street value in reported cases in \$200 per gram



Mephadrone

- 4-MMC, meow meow, m-CAT, bounce, bubbles, mad cow
- Effects happen within 15-45 and can last a couple of hours
- Routes of administration:
 - Oral – 150-250 mg
 - Nasal – 23-75 mg
- Adverse reactions include:
 - include increased heart rate
 - increased blood pressure,
 - chest pain,
 - agitation, irritability,
 - dizziness,
 - delusions,
 - seizures, nausea and vomiting

MDMA (Ecstasy)

- 3, 4-methylenedioxy-methamphetamine
- Street terms: Adam, E, X, XTC, love drug, Molly
- New form with PMMA, increases OD potential due to a slower effect cycle
- A synthetic, psychoactive drug with both stimulant and hallucinogenic properties similar to methamphetamine and mescaline
- Adverse effects: enhanced physical activity, sweating, lack of coordination, mental confusion, jaw clenching, hyperthermia, and agitation
- OTC decongestants that contain phenylephrine, phenylpropanolamine and pseudoephedrine; anything that ends in a "D", i.e., Tavist-D. Products that contain these ingredients; Nyquil, Allerest, Sudafed, Dexatrim, Accutrim can cause false positives

What it looks like



**SUFFOLK
CONSTABULARY**

Police Warning Dangerous Drugs

The ecstasy (MDMA) pill pictured is believed to be linked to the recent death of three people in the Ipswich area and is considered dangerous.

The following advice is issued:

Do not take it

Dispose of it safely by surrendering it to police by calling at your local police station or speaking to an officer, or hand it in to CRI, St Matthews Street, Ipswich, MVA Team, 70 - 74 St Helens Street, Ipswich or Fire Service, Princes Street, Ipswich. Ipswich A&E, Heath Road, West Suffolk Hospital A&E, Hardwick Lane, Bury St Edmunds

To report information to police contact 101

For drugs information and advice visit the Talk To Frank website: www.talktofrank.com

There is also a 24/7 National Drugs Helpline on 0800 77 66 00



Translation:

 **Українська**
 Повідомляємо про те, що в Іпсвічі, графство Сассекс, було знайдено три людини, які померли внаслідок вживання таблеток MDMA/MDMA VICTORY.
 Ці таблетки вважаються небезпечними і пов'язані з останньою смертю трьох осіб в Іпсвічі.
 Якщо у вас є такі таблетки, будь ласка, передайте їх у поліцію або в команду CRI, St Matthews Street, Ipswich, MVA Team, 70-74 St Helens St, Ipswich, або в команду пожежників на Принс-стріт, Іпсвіч, або в прийомну лікарню А&Е, Хіт-роуд, Західна Суссекс-Госпіталь, А&Е, Хардвік-лейн, Бурі-Ст-Едмундс.

 **Русский**
 Предупреждаем о том, что в Ипсвиче, графство Сассекс, были найдены три человека, которые погибли в результате употребления таблеток MDMA/MDMA VICTORY.
 Эти таблетки считаются опасными и связаны со смертью трех человек в Ипсвиче.
 Если у вас есть такие таблетки, пожалуйста, передайте их полиции или в команду CRI по адресу: St Matthews Street, Ipswich, MVA Team, 70-74 St Helens St, Ipswich, или в команду пожарных по адресу Принс-Стрит, Ипсвич, или в приемную больницу А&Е, Хит-Роуд, Западная Суссекс-Госпиталь, А&Е, Хардвик-Лейн, Бери-Ст-Эдмундс.

 **Polski**
 Uwaga!!
 Nadmieniamy o tym, że w Ipswichu, w hrabstwie Sasseks, znaleziono trzy osoby, które zmarły w wyniku zażycia tabletek MDMA/MDMA VICTORY.
 Te tabletki uważa się za niebezpieczne i związane ze śmiercią trzech osób w Ipswichu.
 Jeśli masz takie tabletki, proszę przekazać je policji lub zespołowi CRI pod adresem: St Matthews Street, Ipswich, MVA Team, 70-74 St Helens St, Ipswich, lub zespołowi straży pożarnej na Princes Street, Ipswich, lub do szpitala A&E, Heath Road, West Suffolk Hospital, A&E, Hardwick Lane, Bury St Edmunds.



OPIOIDS

- Zohydro – strongest Rx for hydrocodone, extended release, no other pain killers or anti-abuse formulation
- Acetyl Fentanyl – synthetic formulation to mimic heroin and fentanyl taken together, highly potent and OD is common. Now being added to fake prescription pills sold on the street
- UB-47700 – “Pink” or “Pinky” – opioid analgesic manufactured by Upjohn in 1970’s for research purposes. Liquid, pill and powder for with street value of \$40 per pill. Currently Schedule 1 drug.

| Drug | Dosage | Street Price |
|-------------|---------------|--------------|
| Morphine | 15-60 mg pill | \$5-\$15 |
| Codeine | 8oz bottle | \$200-\$300 |
| Heroin | 50 mg bag | \$10-\$22 |
| Methadone | 10 mg pill | \$5-\$8 |
| Hydrocodone | 10 mg pill | \$5-\$8 |
| Oxycodone | 10 mg pill | \$10-\$15 |
| Fentanyl | 50mcg patch | \$20-\$30 |

KRATOM

- Evergreen tree in the coffee family native to Southeast Asia. Used in traditional medicine since at least the nineteenth century.
- Kratom has some opiate- and stimulant-like properties. Some people take it for managing chronic pain, for treating opioid withdrawal symptoms, or – more recently – for recreational purposes. Onset of effects typically begins within 5 to 10 minutes and lasts 2 to 5 hours.
- Side effects may include nausea, vomiting, and constipation, seizure, addiction, and psychosis, high heart rate and blood pressure, liver toxicity, and trouble sleeping.



SALVIA

- *Salvia divinorum* (also known as sage of the diviners, ska maría pastora, seer's sage, yerba de la pastora) is a psychoactive plant which can induce hallucinations.
- Native to Mexico and Southwest
- HB 124 was signed into law on June 14, 2013, and effective September 1, 2013, *Salvia divinorum* is prohibited as a Penalty Group 3 controlled substance under the Texas Controlled Substances Act.



CAFFEINE

- A single teaspoon of pure caffeine is roughly equivalent to the amount in 28 cups of coffee.
- Pure caffeine is a powerful stimulant and very small amounts may cause accidental overdose. Parents should be aware that these products may be attractive to young people.
- Symptoms of caffeine overdose can include rapid or dangerously erratic heartbeat, seizures and death. Vomiting, diarrhea, stupor and disorientation are also symptoms of caffeine toxicity. These symptoms are likely to be much more severe than those resulting from drinking too much coffee, tea or other caffeinated beverages.



Popular Methods

- Dusting
 - nitrous oxide and “whippets”
 - Dust- off, Whip Cream or any can that has compressed air that can be inhaled
 - Quick high for about 1-2 minutes
 - Similar to huffing, causes short and long term brain damage
- OTC
 - Tripe C's – Coricidin Cough and Cold
 - DXM and “Robo Tripping”
 - At high doses, may produce dissociative hallucinations (distance from reality, visual effects with eyes open and closed; perceptual changes, drug liking, mystical-type experiences similar to use of psilocybin.
 - Can also produce tachycardia, hypertension, agitation, ataxia, and psychosis at high doses.
 - Users of DXM engage in “dose dependent” behaviors in which they try to gauge the amount of the drug they take to produce the desired effects, which they call “plateaus”. Plateau is the mildest effect and the 5th plateau will guarantee a trip to the hospital.

Dosage calculator

All listed values are approximations. This section is intended as a quick reference for individuals with ample DXM experience, it is not suitable for inexperienced individuals. YOU MUST CONSULT [THE DEXTROMETHORPHAN FAQ](#) AND AN EXPERIENCED INDIVIDUAL BEFORE ATTEMPTING TO EXPERIENCE DXM. Cold medicines are dangerous when taken in large quantities and have the potential of making you Sick or Dead.

DXM Dosage Calculator

I weigh: lbs and I want to take Robitussin (oz) .

| Plateau | Minimum | Maximum | Usenet recommends |
|---------|--------------------------------|--------------------------------|--------------------------------|
| 1st: | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |
| 2nd: | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |
| 3rd: | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |
| 4th: | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> |

***Note:** Because of antihistamine product, Contacin™ is suitable for only first and second-plateau dosage.

New Trends in Meth

- **Strawberry Quick** - Strawberry flavored meth
- **Liquid Meth** – dissolved in water for transport; boiled down to solid form. Oral, IV, Nasal administration also popular on blotter papers.
- **Yaba**- Meth & caffeine, looks like Ecstasy
- **“Shake and Bake”**
 - 2 liter soda bottle, few handfuls of cold pills and household chemicals
 - Faster, cheaper, simpler method
 - No flame required
 - If oxygen in bottle it may explode
 - Bottle contains poisonous brown and white sludge
 - Environmental concern – when bottles tossed
 - Do it yourself method creates few hits
 - Users can make their own, bypass dealer
 - No more anhydrous ammonia (fertilizer tanks) now ammonium nitrate (compound found in instant cold packs)



Crunk and Purple Drank

- Both slang terms refer to mixing cough syrup with either alcohol or non-alcoholic beverages. Most popular names are “Lean” or “Sizzurp”
- Purple Drank uses codeine/promethazine cough syrup and is usually mixed with flavored soda and Jolly Ranchers. It produces a purple color.
- Crunk uses OTC cough medicines containing **Dextromethorphan (DXM)** found in Robitussin, Vicks, etc
- Both combinations and the slang associated are heavily referred to by some rap/urban musicians in their music. Becoming more main stream.

Packaging

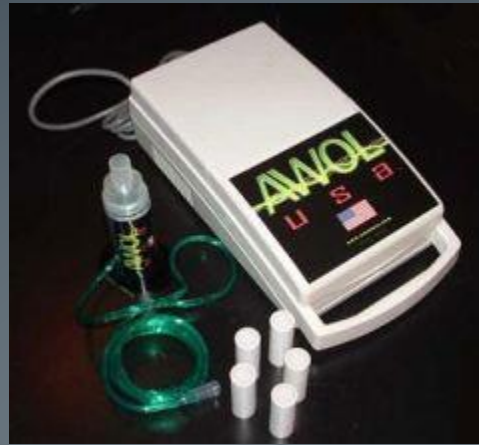


Effects

- Restless muscles movements in the eyes, tongue, jaw, neck
- Shallow breathing
- Slow heartbeat
- Feeling like you might pass out
- Confusion, agitation, hallucinations
- Seizure
- Urinating less than usual
- Stiff muscles
- High fever, sweating
- Dizziness, drowsiness
- Feeling restless
- Insomnia
- Withdrawal effects are typical opiate symptoms for both

New Uses for Alcohol or Alcohol “Hookah”

- “AWOL” - Alcohol With Out Liquid, use of a vaporizing machine to inhale distilled alcohol.
 - Direct absorption into the blood stream
 - Decreases intake of carbs and low incidence of hangovers.
 - Very low detection on breathe, skin or perspiration.
 - Consistent inhalation of mist over 20 minute period is equal to 1 shot of alcohol.



Law Enforcement and Testing

- Effective March 7, 2014 temporary scheduling of 10 cathinones to Schedule 1 under Controlled Substances Act and 4 synthetic cannabinoids.
- Packages can be marketed and sold legally as long as labeled “NOT FOR HUMAN CONSUMPTION”
- Compounding recipes easily available on the internet.
- Oral swab and UA testing now available, but 24-72 hours detection time depending on dose and test used.
- Most testing still done using a standard 5 or 10 panel dip.
- Synthetic Drug Awareness Act 2017 – Surgeon General required to report to Congress on health effects of use since 1/2010 by individuals 12-18.

Efforts to Stop OD

- MAT – Medication Assisted Treatment
 - NARCAN – Naloxone shot or nasal spray that disrupts effects of an overdose for up to 90 minutes. Available to anybody in Texas through a standing order through a pharmacy.
 - Methadone (Dolophine®, Methadose®), buprenorphine (Suboxone®, Subutex®, Probuphine®), and naltrexone (Vivitrol®)
 - Probuphine consists of four, one-inch-long rods implanted under the skin on the inside of the upper arm and provide treatment for six months.
 - not appropriate for new entrants to treatment and patients who have not achieved and sustained prolonged clinical stability, while being maintained on buprenorphine 8 mg per day or less of a Subutex or Suboxone sublingual tablet or generic equivalent.

- Comprehensive Addiction and Recovery Act 2016
 - Expand prevention and educational efforts—particularly aimed at teens, parents and other caretakers, and aging populations—to prevent the abuse of methamphetamines, opioids and heroin, and to promote treatment and recovery.
 - Expand the availability of naloxone to law enforcement agencies and other first responders to help in the reversal of overdoses to save lives.
 - Expand resources to identify and treat incarcerated individuals suffering from addiction disorders promptly by collaborating with criminal justice stakeholders and by providing evidence-based treatment.
 - Expand disposal sites for unwanted prescription medications to keep them out of the hands of our children and adolescents.
 - Launch an evidence-based opioid and heroin treatment and intervention program to expand best practices throughout the country.
 - Launch a medication assisted treatment and intervention demonstration program.
 - Strengthen prescription drug monitoring programs to help states monitor and track prescription drug diversion and to help at-risk individuals access services.

Proposed Legislation

- **Summary: H.R.449 — 115th Congress (2017-2018)**
- **Introduced in House (01/11/2017)**
- **Synthetic Drug Awareness Act of 2017**
- This bill requires the Surgeon General to report to Congress on the public health effects of the increased use since January 2010 by individuals who are 12 to 18 years old of drugs developed and manufactured to avoid control under the Controlled Substances Act (e.g., synthetic marijuana, also known as "spice," and synthetic amphetamines, also known as "bath salts").

Additional Resources

- www.erowid.com
- <http://www.justice.gov/dea>
- <http://www.ncsl.org/issues-research/justice/synthetic-drug-threats.aspx>
- www.drugabuse.gov
- <http://www.acep.org>
- <http://www.socialworktoday.com>