R7 Emergency Planning & Preparedness

- ER Outreach & Contingency Planning
  - Outreach Areas
  - Sub-areas (Siouxland and Quad Cities)
- Oil Spill Preparedness
  - ~250 FRP facilities and >1,000 SPCC in Region
- Homeland Security Preparedness and Emergency Response
Who We Are

Superfund Assessment, Emergency Response & Removal Branch

18 On-Scene Coordinators

- Employees located in Lenexa, KS and Kansas City and Saint Louis, MO
- Multi-Disciplinary Team
  - Engineers, Geologists, Chemists, Physical Scientists, Biologists, Toxicologist

Federal On-Scene Coordinator Roles and Responsibilities:
- responsible for providing access to federal resources and technical assistance
- coordinates all federal containment, removal, and disposal efforts and resources during an oil or hazmat incident
- serves as the point of contact for coordination of federal efforts with the local response community
- coordinates, monitors, or directs response efforts
Response Partners

**EXTERNAL**

- State/Local Response Agencies
  - IDNR/Dept of Public Safety
  - State and County EM/LEPC
  - Regional HAZMAT
- Coast Guard
- DOI/FBI/USDA
- Federal Emergency Management Agency

**INTERNAL**

- R7 Divisions/Offices (RCRA/EPCRA/Water/CID)
- Office of Emergency Management (HQ)
Responses: Small Scale to Large Scale

Iowa Responses:
- Doon Iowa Derailment
- Sibley Train Derailment
- New Hampton Train Derailment
- Mercury
- Pesticides
- Plating Shops
- Lead
- Oil Spill Response
- Iowa/Midwest Floods

Large Scale Responses under Stafford Act:
- Wildfires
- Hurricane
- Tomatoes
- Terrorist Capitol Hill (Anthrax)
How Can We Help

- Technical Assistance
  - CERCLA
  - OPA
  - EPCRA
- Request for Assistance – thru the State or other Federal Agency
  - Thru Response Activities
  - Thru National Assets:
    - Consequence Management Advisory Division (CMAD) – EPA CBRN
    - Emergency Response Team – technical and field assistance
    - Radiation Program
    - Trace Atmospheric Gas Analyzer (TAGA) bus – self contained mobile lab
    - Radiological Emergency Response Team (RERT)
    - Airborne Spectral Photometric Environmental Collection Technology (ASPECT) airborne, infrared and photographic imagery platform
    - Equipment and contract capabilities (EPA contracts)
- Planning and Preparedness (Outreach)
  - Spill Planning – Exercises – Trainings
  - Oil Response Planning
  - Drug/ HME clandestine labs/ hazard recognition

USCG National Response Center- 1-800-424-8802
EPA Region 7 24/7 Spill Line- 913-281-0991
Course Objectives

- Know the Current HME/Drug Lab Trends
- Recognize Lab Types, Hazards and Mitigations
- Know information and testing tools to distinguish between different types of labs
Agenda

0800-0915 Homemade Explosives Trends, Labs and Response
0915-0945 Break
0945-1045 Drug Trends, Labs and Response
1045-1100 Questions/Evaluations
Homemade Explosives (HME)

Doug Ferguson
USEPA Region 7
On-Scene Coordinator
Objectives

- Recognize the chemicals, equipment, processes and hazards associated with clandestine explosives labs
- Know technology and information resources to identify chemicals, equipment, processes and hazards associated with clandestine explosive labs.
Arson and Explosives Bureau

Zone 1
1. David Linkletter-Des Moines 515-689-1463
2. Mike Lillebo-Des Moines 515-250-5458
3. John Ticor-Council Bluffs 712-308-3977
4. Wayne Brosam-Denison 712-250-1447
5. Andrew Giere-Spencer 712-298-4435
7. Vacant

Zone 2
9. Mark Weidman-Mount Pleasant 515-577-9715
10. Justin Wade-Stockton 563-370-0849

Zone 3

Zone 4

Revised: 04/02/2020
Effective: 04/02/2020
Homemade Explosives (HME)

Fuels + Oxidizers = Explosives
Homemade Explosives (HME)

Chemicals that react to produce molecules that decompose violently by producing large amounts of energy and rapidly expanding gases.

Acetone + H₂O₂ → Triacetone Triperoxide

Hexamine + Nitric Acid → RDX

RDX = Rapid Detonation Explosive
HME Examples
Knoxville, Iowa Gender Reveal Party Accidental Explosion and Death

INFORMATION RELEASED IN KNOXVILLE EXPLOSION

October 26, 2019

KNOXVILLE, Iowa -- This is NOT a press release directly from the Iowa Department of Public Safety's State Fire Marshal's (SFM) Office. This is a press release from the Marion County Sheriff's Office and the SFM assisted with the investigation.

MARION COUNTY SHERIFF'S OFFICE
Serving Marion County Since 1945

Sheriff Jason Sandholdt:
Marion County Law Enforcement Center
211 N. Godfrey Lane
Knoxville, Iowa 50138-9000

Office (641) 828-2220
Fax (641) 828-7337
http://co.marion.ia.us/offices/sheriff/

PRESS RELEASE

RELEASE DATE: For immediate release

CONTACT PERSON: Sheriff – Jason Sandholdt
Marion County Sheriff's Office
211 N. Godfrey Ln
Knoxville, IA 50138
(641) 828-2220

On Saturday 10/26/19 at 4:07 p.m., the Marion County Sheriff’s Office received a 911 call of an explosion that had occurred at 2079 180th Ave., in rural Knoxville, IA. It was reported that a female had been seriously injured in the explosion. Local fire departments, emergency medical services, and law enforcement responded to the scene where a 58-year-old female was pronounced deceased on scene. The investigation determined that a gender reveal announcement resulted in the explosion which caused a flying piece of debris to strike the victim. The Marion County Sheriff’s Office was assisted in the investigation by the Iowa State Fire Marshal’s Office, The Bureau of Alcohol, Tobacco, and Firearms, the Indiana Township Fire Department, the Knoxville City Fire and Rescue, and the Marion County Medical Examiner’s Office.
Playing child, 8, finds explosive device on Iowa street

By KCCI Staff
Published: Jun. 13, 2021 at 4:17 AM CDT | Updated: Jun. 13, 2021 at 4:18 AM CDT

ANKENY, Iowa (KCCI) - Police are investigating after an 8-year-old Iowa girl found an explosive device in the middle of her street while playing outside.

Maya Buffington, 8, was matter-of-fact as she described what she saw just before 9:30 a.m. Wednesday on Southeast Waywin Drive in Ankeny, Iowa.

“I found a bomb,” she said. “I saw something in the street that I thought was a dead squirrel, and then, I went to go look at it. And it wasn’t a dead squirrel. It was something wrapped up in tape and cardboard.”

Police are investigating the incident, saying it was concerning that the device was left in the middle of the street, where a person or vehicle could have detonated it. (Source: Suzanne Buffington, KCCI via CNN)
Wisconsin man charged in April explosive incident in Dubuque

Officials said 29-year-old John Frederick was charged with reckless use of fire or explosives for an incident that occurred at about 11:39 p.m. on April 3. (KCRG)

By KCRG Staff

Published: Jun. 30, 2021 at 12:16 PM CDT

DUBUQUE, Iowa (KCRG) - A Wisconsin man police say is responsible for an explosion in Dubuque in April was charged for the incident.
Illegal firework production caused Raytown duplex blast that killed 1, ATF believes

BY LUKE NOZICKA AND BILL LUKITSCH
UPDATED JUNE 30, 2021 1:36 PM

ATF: Body found in basement area of Raytown duplex that exploded Monday night
Large fire following multiple explosions inside Grandview business

Posted: Jan 03, 2017 7:30 PM CST
Updated: Feb 02, 2017 8:01 PM CST

By Nick Sloan, Digital Producer
By Nathan Vickers, Multimedia Journalist
By Emily Rittman, News Reporter

GRANDVIEW, MO (KCTV) - An explosion rocked a Grandview business and the surrounding area Tuesday night and emergency crews are still battling flames and smoke at the scene.

The City of Grandview confirms multiple explosions happened inside the JW Lawn & Garden Equipment at 140th Street and West Outer Road.

An initial "massive" explosion happened, which was followed up by smaller ones.

Gun powder inside the building may have resulted in the explosion, according to the City of Grandview.

John Ham of the Alcohol Tobacco and Firearms Kansas City Field Division says the only thing left of the business is the foundation.

The ATF will send in their explosives team once the sun comes up on Wednesday morning but says they will move very slowly until they know what caused the fire.

Investigators have ruled out natural gas as the cause of the explosion because the building has not been retrofitted for natural gas.
Homemade Explosives Guide for after the SHTF

Posted on 03/13/2013 by Runik — 50 Comments
<table>
<thead>
<tr>
<th>NAME</th>
<th>DESCRIPTION</th>
<th>ODOR</th>
<th>PICTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone **</td>
<td>Colorless liquid, but can also have a variety of dyes added</td>
<td>Sweet, fragrant, and mint-like aroma</td>
<td></td>
</tr>
<tr>
<td>Ammonia **</td>
<td>Colorless liquid</td>
<td>Strong, pungent</td>
<td></td>
</tr>
<tr>
<td>Ammonium Nitrate</td>
<td>Prolif (small, compressed pellets) white to brown in color, depending on impurities</td>
<td>Odorless</td>
<td></td>
</tr>
<tr>
<td>Benzene **</td>
<td>Colorless; flammable liquid</td>
<td>Sweet, chemical-like</td>
<td></td>
</tr>
<tr>
<td>Butane / Fuel Oil / Kerosene / Diesel Fuel</td>
<td>Colorless, flammable easily liquefied gas</td>
<td>Sweet, chemical-like; similar to a gas station</td>
<td></td>
</tr>
<tr>
<td>Calcium Hypochlorite</td>
<td>White crystalline solid in the form of granules</td>
<td>Strong chlorine-like</td>
<td></td>
</tr>
<tr>
<td>Glycerin</td>
<td>Colorless; viscous liquid that has a sweet taste</td>
<td>Odorless</td>
<td></td>
</tr>
<tr>
<td>Hexamine</td>
<td>White powder that is often produced as tablets</td>
<td>Odorless</td>
<td></td>
</tr>
<tr>
<td>Hydrochloric / Muriatic Acid **</td>
<td>Colorless or slightly yellow fuming liquid</td>
<td>Irritating, acid</td>
<td></td>
</tr>
<tr>
<td>Hydrogen Peroxide **</td>
<td>Clear liquid, slightly more viscous than water</td>
<td>Odorless</td>
<td></td>
</tr>
<tr>
<td>Mercury **</td>
<td>Thick silver, metallic-looking liquid at room temperature</td>
<td>Odorless or slightly metallic</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NAME</th>
<th>DESCRIPTION</th>
<th>ODOR</th>
<th>PICTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitric Acid</td>
<td>Clear, colorless liquid, or a yellow or red fuming liquid</td>
<td>Irritating, acid</td>
<td></td>
</tr>
<tr>
<td>Phenol / Aspirin</td>
<td>Clear or white, crystalline mass; sometimes can appear reddish or pinkish</td>
<td>Distinctly aromatic, sweet, or tar-like</td>
<td></td>
</tr>
<tr>
<td>Potassium Chlorate</td>
<td>Colorless, lustrous crystals or as white granules</td>
<td>Odorless</td>
<td></td>
</tr>
<tr>
<td>Potassium Nitrate</td>
<td>White granular or crystalline powder</td>
<td>Odorless</td>
<td></td>
</tr>
<tr>
<td>Potassium Permanganate</td>
<td>Dark-purple or bronze-like crystals</td>
<td>Odorless</td>
<td></td>
</tr>
<tr>
<td>Sodium Azide</td>
<td>White hexagonal crystals</td>
<td>Odorless</td>
<td></td>
</tr>
<tr>
<td>Sodium Chlorate</td>
<td>White crystalline powder or granular substance</td>
<td>Odorless</td>
<td></td>
</tr>
<tr>
<td>Sugar / Powdered Sugar</td>
<td>White, crystalline solid</td>
<td>Odorless, but may have a caramel smell when heated</td>
<td></td>
</tr>
<tr>
<td>Sulfuric Acid / Drain Cleaner **</td>
<td>Colorless, odorless; oil liquid; when impure has a brownish hue</td>
<td>Odorless, but strong concentrations in the air can be pungent and irritating</td>
<td></td>
</tr>
<tr>
<td>Toluene **</td>
<td>Clear, colorless liquid</td>
<td>Sweet, chemical-like</td>
<td></td>
</tr>
<tr>
<td>Urea</td>
<td>White crystals or powder</td>
<td>Odorless, but it may acquire the odor of ammonia or urine when exposed to water</td>
<td></td>
</tr>
</tbody>
</table>

**Indicates chemicals that can be used to make both explosives and narcotics**
## Improvised Explosive Threat Card

**Oxidizer Names / Chemical Symbols**

- Perchlorate / $\text{ClO}_4^-$
- Chlorate / $\text{ClO}_3^-$ **(Highly Hazardous)**
- Hypochlorite / $\text{OCl}^-$
- Nitrate / $\text{NO}_3^-$
- Peroxide / $O_2$ **(Highly Hazardous)**
- Permanganate / $\text{MnO}_4^-$
- Iodate / $\text{IO}_3^-$
- Chromate / $\text{CrO}_4^{2-}$
- Dichromate / $\text{Cr}_2\text{O}_7^{2-}$

**Commonly Associated with Oxidizers**

- Sodium (Na)
- Potassium (K)
- Barium (Ba)
- Calcium (Ca)
- Ammonium ($\text{NH}_4^+$)
- Lithium (Li)
- Strontium (Sr)
- Lead (Pb)
- Silver (Ag)
- Hydrogen (H)

**Examples of Oxidizer Compounds**

- Ammonium Perchlorate = $\text{NH}_4\text{ClO}_4$
- Sodium Chlorate = $\text{NaClO}_3$
- Calcium Hypochlorite = $\text{Ca(OCI)}_2$
- Ammonium Nitrate = $\text{NH}_4\text{NO}_3$
- Potassium Nitrate = $\text{KNO}_3$
- Hydrogen Peroxide = $\text{H}_2\text{O}_2$
- Barium Peroxide = $\text{BaO}_2$
- Potassium Permanganate = $\text{KMnO}_4$
- Lead Iodate = $\text{Pb(IO}_3)_2$
- Lithium Chromate = $\text{Li}_2\text{CrO}_4 \cdot 2\text{H}_2\text{O}$
- Potassium Dichromate = $\text{K}_2\text{Cr}_2\text{O}_7$

**Notes:**

- **Chlorates and peroxides can produce very dangerous explosive mixtures.**
- Oxidizers serve as a source of oxygen to support a combustion-like reaction in Improvised Explosives.

---

**Figure 1: Oxidizers**
### HYDROCARBONS
- Gas
- Diesel (FO)
- Kerosene
- Naphtha
- Carbon Black
- Charcoal
- Sugar
- Wax / Paraffin
- Vaseline
- Dextrin
- Shellac
- Rosin
- Sawdust
- Alcohol
- Ethylene Glycol

### ENERGETIC HYDROCARBONS
- Nitrobenzene (NB)
- Nitromethane (NM)
- Nitrocellulose (NC)

### ELEMENTAL “HOT” FUELS
#### Powdered Metals
- Aluminum (Al)
- Magnesium (Mg)
- Magnesium / Aluminum (50/50)
- Zirconium (Zr)
- Copper (Cu)
- Phosphorus (P)
- Sulfur (S)
- Antimony Trisulfide (Sb₂S₃)

Fuels consist of anything that can readily react with oxygen in a manner which produces heat. Elemental fuels can create very sensitive mixtures when mixed with oxidizers.

**Figure 2: Fuels**
### COMMON OXIDIZERS
- Sodium Chlorate - NaClO₃
- Potassium Chlorate - KClO₃
- Ammonium Perchlorate - NH₄ClO₄
- Calcium Hypochlorite - Ca(OCl)₂
- Ammonium Nitrate (AN) - NH₄NO₃
- Potassium Nitrate (Saltpeter) - KNO₃
- Hydrogen Peroxide - H₂O₂
- Barium Peroxide - BaO₂
- Potassium Permanganate - KMnO₄
- Nitric Acid - HNO₃

### NITRATE BLENDS
- **ANFO**
  - Ammonium Nitrate (AN)
  - Diesel Fuel (FO)
- **ANAI**
  - Ammonium Nitrate (AN)
  - Aluminum Powder (Al)
- **ANS**
  - Ammonium Nitrate
  - Sulfur Powder
- **ANIS**
  - Ammonium Nitrate
  - Icing Sugar
- **Black Powder**
  - Potassium Nitrate
  - Charcoal
  - Sulfur

### CHLORATE/PERCHLORATE BLENDS
- **Flash Powder**
  - Potassium Chlorate/Perchlorate
- **Aluminum Powder**
- **Magnesium Powder**
- **Sulfur**
- **Poor Man's C-4**
  - Potassium Chlorate
- **Vaseline**
- **Armstrong's Mixture**
- **Potassium Chlorate**
- **Red Phosphorus**

### LIQUID BLEND
- **Hellhoffite**
- **Nitric Acid**
- **Nitrobenzene (NB)**

---

Oxidizers can be blended with a variety of fuels to produce explosive mixtures. Listed above are numerous common examples of these blended improvised explosives.

**Figure 3: Blended Explosives**
### Common Precursors
- Hydrogen Peroxide - $\text{H}_2\text{O}_2$
- Strong Acids
- Sulfuric "Battery" - $\text{H}_2\text{SO}_4$
- Nitric - $\text{HNO}_3$
- Hydrochloric "Muriatic" - $\text{HCl}$
- Urea (Fertilizer 46-0-0)
- Acetone
- Methyl Ethyl Ketone (MEK)
- Alcohol (Ethyl or Methyl)
- Ethylene Glycol (Antifreeze)
- Glycerin(e) (Glycerol)
- Hexamine (Camp Stove Tablets)
- Citric Acid (Sour Salt)

### Nitrated Explosives
- Nitroglycerine (NG)
- Glycerine
- Nitric Acid + Sulfuric Acid (Mixed Acid)
- Ethylene Glycol Dinitrate (EGDN)
- Ethylene Glycol
- Nitric Acid + Sulfuric Acid (Mixed Acid)
- Methyl Nitrate
- Methyl Alcohol (Methanol)
- Nitric Acid + Sulfuric Acid (Mixed Acid)
- Urea Nitrate
- Urea
- Nitric Acid
- Nitrocellulose (Gun Cotton)
- Cotton
- Nitric Acid + Sulfuric Acid (Mixed Acid)

### Peroxide Explosives
- Triacetone Triperoxide (TATP)
- Acetone
- Hydrogen Peroxide
- Strong Acid
- Hexamethylene Triperoxide Diamine (HMTD)
- Hexamine
- Hydrogen Peroxide
- Citric Acid
- Methyl Ethyl Ketone Peroxide (MEKP)
- Methyl Ethyl Ketone
- Hydrogen Peroxide
- Strong Acid

### Initiating Explosives
- Mercury Fulminate
- Mercury
- Nitric Acid

---

A variety of chemical precursors can be reacted together to create explosives.

The FBI Explosives Unit can be reached for questions at 703-632-7626 (8:00 - 5:00 EST) / 202-323-3300 (after hours)

---

**Figure 4: Synthesized Explosives**
Military - style Solid Fuel Tabs.

Military-style Solid Fuel Tabs

SAVE an EXTRA 10% Every Day!
Red Phosphorus

Red Phosphorus 99.7% Lab Reagent
Chemical Formula: P
Mesh: 150
CAS Number: 7723-14-0

We supply the Red Phosphorus with different packages, there is 500g, 1kg, 2kg, 5kg, 10kg, and 25kg packages. The order will be shipped within 24 hours when you completed the payment. You will receive an e-mail tracking number once your order has been shipped.

<table>
<thead>
<tr>
<th>Product Quantity</th>
<th>Price (Free shipping)</th>
<th>Order</th>
</tr>
</thead>
<tbody>
<tr>
<td>500g</td>
<td>USD150</td>
<td>Buy Now</td>
</tr>
<tr>
<td>1000g</td>
<td>USD190</td>
<td>Buy Now</td>
</tr>
<tr>
<td>1500g</td>
<td>USD220</td>
<td>Buy Now</td>
</tr>
<tr>
<td>2kg</td>
<td>USD290</td>
<td>Buy Now</td>
</tr>
</tbody>
</table>

Because of high banking fees, we recommend that you use Western Union to deliver your payment. To find out how to use Western Union to process your order, please contact with us for Western Union payment information by email: info@pharmacychem.com
1 pint FOOD GRADE HYDROGEN PEROXIDE - NO HAZMAT FEE 17 1/4% h2o2 diluted from 35%

Item condition: New

Quantity: 1

Price: US $7.50

Buy It Now

38 watching

Add to watch list

110 sold

More than 64% sold

10 inquiries

Seller information
prettyparrot8800 (3291) ★ ★ ★
99.7% Positive feedback

Follow this seller

Visit store: PrettyParrot for a...

See other items

LEARN HOW TO EARN $30 BACK
as a statement credit. If you are approved for a new eBay ManageCard account.

Learn More

People who viewed this item also viewed

35% Food Grade Hydrogen Peroxide...

$11.99

Buy It Now

Lot of 2 Garden of Life

PerFect Food Ferment R...

$47.99

Buy It Now

2 quart 17% HYDROGEN...

$39.95

Buy It Now

Food Grade 8% Hydrogen Peroxide...

$18.47

Buy It Now or Buy It Now or Sniping is not allowed.

Report item
Thins not to Open (without special conditions)

- Organo-peroxides
- Containers with crystal formation around the lid
  - Water reactive
  - Water sensitive
  - Organo-metallic
- Air reactive
- Pyrophoric
- Self-reactive
- Spontaneously combustible
- Shock sensitive
High School Explosives
Links

- https://archive.org/stream/DHS_Indicators_and_Warnings_for_Homemade_Explosives#page/n0/mode/2up
Questions about HME?

Doug Ferguson
913-551-7221
ferguson.doug@epa.gov
Drug Trends*

- Only 8 meth labs in Iowa in 2020, vast majority smuggled in with 97% purity. The “One Pot” meth cook is difficult to find due to its small size.
- Meth “conversion” labs recrystallize meth smuggled in tanks and totes.
- Meth related treatment and deaths are at an all time high along with the supply of meth increasing.
- THC extraction from marijuana labs and use in vaping devices.
- Lethal counterfeit Opioid pills flooding the US.
- Local Law Enforcement personnel in your area will know more about drugs in your area.
- Conclusion: illegal drugs are available, increasing numbers of people are using drugs, the use of illegal drugs is harming the people of Iowa.

FENTANYL SEIZED IN IOWA

IOWA DEPARTMENT OF PUBLIC SAFETY (GRAMS)

ENTIRE 2020: 4,009.77

JAN. - SEPT. 2021: 6,681.07
KEARNEY — A Kansas woman was allegedly burned when a chemical concoction exploded in the car she and three other people were sitting in.

One of the occupants of the car, Levi M. Sanderson, 24, of Kearney was charged Friday in Buffalo County Court with felony manufacturing of meth in the Tuesday evening incident. Late Friday, he was being held at the Buffalo County Jail on 10 percent of a $200,000 bond. He must post $20,000 to be freed.

Court records outline the cases against Sanderson:

Around 5:30 p.m. Tuesday, Kearney Police Department officers were dispatched to a medical call at Sanderson’s home at 814 Ave C. There, they found Jayme Horacek, 26, of Almena, Kan., with severe burns to her body.

Through their investigations, police learned a one-pot meth lab had exploded
INTRODUCTION

Welcome to the very first version of The Clandestine Chemist’s Notebook. Originally I had the idea of making this information into a website. But after reading articles about certain people being arrested for information they had posted on their websites (in America by the way), I decided a text file would be better suited for information such as what you are about to read. My main reason for choosing to put this information in a text file is because I am pretty much allowed to say whatever I want. A website draws too much unwanted attention from very unrespectable American Bureaus.

Let me cut to the chase. Basicaly, this is a handbook that will explain to you exactly how to manufacture illegal drugs. I must state here that this manual is not a rip-off of “The Anarchist Cookbook”. The methods explained within this text file are proven syntheses for manufacturing illegal drugs. You will not find any “Make Speed from Vicks Nasal Inhalers”, “Make real LSD from Morning Glory Seeds” in this text file.

If you are under the age of 18, I highly suggest that you not read any further.
Primary Production Methods

- HI/Red P
- Anhydrous Ammonia/Lithium
Production of Meth Via HI/Red P

Ephedrine

Meth
Production of Meth Via Li/NH$_3$

Ephedrine

\[
\text{C}_\text{H}_3\text{C}_{\text{H}}\text{C}_\text{C}\text{CH}_3\text{NCH}_3\text{OH}
\]

Meth

\[
\text{C}_\text{H}_3\text{C}_{\text{H}}\text{C}_\text{C}_\text{H}_3\text{NCH}_3\text{H}
\]
Extraction of Ephedrine or Pseudoephedrine

- Solvents
- Cold Tablets
Extraction

- Crush pills
- Add solvent
- Filter out pill filler
- Dry solvent with ephedrine or pseudoephedrine
SAVE UP TO 10% WHEN YOU BUY MORE

RAW - Pure Chinese Huáng Slînica Extract - By the Ounce

Condition: New
Type: Extract 20:1
Size: 4oz.

Bulk savings:
- Buy 1: $89.72/ea
- Buy 2: $84.34/ea
- Buy 3: $82.54/ea

Quantity: 1 or more for $80.75/ea
20 available / 881 sold

Price: US $89.72/ea
Buy It Now
Add to cart
Add to Watchlist

881 sold  More than 76% sold  Free shipping
The Wild Shrub at the Root of the Afghan Meth Epidemic
Add Iodine, Red Phosphorus & Water to Ephedrine or Pseudoephedrine & Cook
Add Lithium Strips to Ephedrine or Pseudoephedrine then pour on Anhydrous Ammonia

\[ \text{Ephedrine or pseudoephedrine} \]
“Shake and Bake”
Guide to "Shake n Bake" Methamphetamine
by bigjake420
Published on 02-20-2011 04:40 AM Number of Views: 398427

Materials: 1 box of pseudoephedrine pills, 1 Cold-Compress pack, a bottle of iye crystals, 2 AA energizer lithium batteries, Coleman fuel, Iodized salt, sulfuric acid or Muratic acid, 2 20oz bottles, coffee filters, a clear hose about 6 - 12" long, funnel, 2 Pint Mason jars, and lineman pliers.

First off, make sure your working in a clean and safe area. Clean both of the 20oz bottles with some paper towels and a clothes hanger, rinse with Coleman fuel, and repeat. You want the bottles to be clean as possible to make clean dope.

After you clean one bottle, use your funnel and one coffee filter and put 6oz of Coleman fuel in the bottle. Then, using your lineman pliers, obtain the lithium metal from the batteries, tear them small balls and put them in your fuel. After you get both your lithium strips in, add 3 tablespoons of crushed Ammonia nitrate from the cold compress pack, and 3 tablespoons of iye crystals. Shake the bottle and get a reaction going. After you get a good reaction add your crushed pseudoephedrine and let it cook for 45 minutes to an hour. Burping the bottle when it get tight. Refrain from shaking the bottle in the during the last 15 minutes of the cook.

There should be a good amount of copper "b.b.e" floating with your lithium strips. This is a good sign your cook is close to finished. Clean out the mason jar you have ready, and use 3-4 filters to filter off your cook into the mason jar.

Now its time to make a smoke bottle, either using sulfuric acid or Muratic acid. Clean the 20oz bottle like before, and make a hole in the cap big enough for your hose. If you're using sulfuric acid, add 1 tablespoon of salt to the bottle and just a couple drops of sulfuric acid. If you're using Muratic acid, put 3-4 balls of aluminum foil in the bottle and a couple drops of Muratic acid. Put the hose right above your fuel in the mason jar and watch the dope drop.

Hit it with the smoke a couple times and stir it up until it doesn’t drop anymore, then filter this into another mason jar, and you got your first pull in the filter. Dry it out and test it. Then take the fuel you poured off and put it back in the cook bottle. Cook it for about 30 minutes and try for a second pull.

You should yield about a gram, to a gram and a half of Methamphetamine.

965 Comments

sckwathi713 - 03-02-2011, 11:42 PM
Lithium
Ammonia Generators

Lye (NaOH) plus Ammonium Nitrate produces Ammonia Gas
"Salting Out" of Meth

\[
\text{Methamphetamine} \quad \xrightarrow{\text{HCl}} \quad \text{Methamphetamine Hydrochloride}
\]
Salting Out

Bubble Hydrogen Chloride Gas through Meth Oil

- Sulfuric Acid and Table Salt
- Aluminum Foil and Muriatic Acid
Meth Conversion Labs

The meth & solvent solution is heated to evaporate the liquid. Something as available as a turkey fryer can be used to evaporate the liquid. These labs still have the potential to be dangerous due to fire and explosion possibilities. Additionally, due to the concentration of the liquid meth, inadvertent ingestion and overdose is possible.
120 gallons of liquid meth in the tank, which, according to Harnett County, NC Sheriff Wayne Coats, would be converted into 454 kilograms of crystal meth. This is estimated to have a street value of almost $91 million.
Hazards

- Flammable vapors
- Corrosive vapors
- Toxic vapors
- Oxidizers
- Fuels/Solvents
- Water Reactive

- Crazy Meth Cooks
- Fire Arms
- Booby Traps
- Clutter (slip/trip/fall)
- Sharps
- Biohazard
## Health Effects

<table>
<thead>
<tr>
<th>Chronic</th>
<th>Acute</th>
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<tbody>
<tr>
<td>- Weight Loss</td>
<td>- Respiratory Distress</td>
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<tr>
<td>- Tooth Damage</td>
<td>- Hyperthermia</td>
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<tr>
<td>- Sores</td>
<td>- Suffocation/Death</td>
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<tr>
<td>- Paranoia</td>
<td>- Burns</td>
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<td>- Insomnia</td>
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</table>
One Pot Spill gif
THC Extraction

- Butane Hash Oil, Honey Oil, Wax, Weed Oil, Dabs, Moon Rocks, 710, etc.
- Health conscience marijuana users don’t have to inhale the harmful plant material to get high.
- “Cleaner, stronger high”
- Product and process are easy to conceal, need grinder, solvent and weed
- Able to sell the buds and use the trim for BHO
- You can store wax longer, plant material will mold
Illicit Fentanyl

- Clandestinely produced
- Often contains cuts, including other controlled substances
- Can be poorly mixed, creating hot spots
- Has been attributed to 1000s of deaths and many more suspected in overdose deaths
Routes of Exposure

- Inhalation of airborne powder
  - Injection
  - Ingestion
- Skin Absorption—possible
Fentanyl Trailer Assessment

OSCs Doug Ferguson, Yvonne Smith & Sharon Kennedy
May 18-19, 2021
Nebraska State Patrol
Grand Island, NE
Troopers make record fentanyl bust. It's enough to kill about 26 million people, DEA reckons

BY KAITLYN ALANIS
MAY 24, 2018 11:41 AM, UPDATED MAY 24, 2018 05:49 PM

Nebraska Governor Pete Ricketts praised the work of the state troopers who made one of the largest fentanyl busts in the U.S. — and the largest in Nebraska. BY NEBRASKA EDUCATIONAL TELECOMMUNICATIONS | MONTY DAVIS
118 Pounds of Pure Fentanyl Seized on I-80 Near Kearney, NE 5/2018

- 5/2018 Trailer seized
- 2/2021 Second truck driver sentenced
- 4/28/2021 Nebraska State Patrol Contacts OSC Ferguson regarding testing the seized trailer for drug contamination. Want to be sure trailer is usable for drug dog training
- 5/5/2021 USEPA Consequence Management Assistance Division agrees to send sampling materials and analyze samples with the earliest analysis date of 5/19/2020
- 5/18/2021 Initial site characterization in Level B PPE, 26 wipe samples collected in Level C PPE. OSCs Y. Smith and S. Kennedy sampling facilitators. NSP and Grand Island Fire/EMS on Standby for rescue and treatment.
Refrigerated Tractor Trailer
26 10cmx10cm wipe samples, 4 field blanks
Sampling Templates in hidden compartment

Sampling Facilitator providing clean sampling equipment
Post Sampling Plans

- Samples shipped to Castle Rock, CO on 5/19 and received 5/21
  - Results estimated in the next 1-2 weeks
- Data will be provided to the Nebraska State Patrol to determine potential future use as training for drug sniffing dogs
  - No definitive action level, but California has established a provisional goal of below 1 ng/cm²
- The trailer will likely be thoroughly cleaned before reuse, but if fentanyl is measured at or above 1 ng/cm², resampling will likely take place after decontamination.
- One sample at the middle bottom of the hidden compartment had a hit of 90 ng over 100cm² or 0.9 ng/cm², just below the cleanup concentration of 1 ng/cm².

- NSP decide on what to do with trailer, but will likely wash out the trailer and use for training their drug sniffing dogs.
PPE

Cooking
- Use Air Monitoring
- Police get Perps
- Level A/Bunker Gear w/ SCBA
- LEL/Corrosive/High O2 Reading=ventilate

Not Cooking
- Use Air Monitoring
- Level D unless a major lab with lots of open containers (tyvek, booties, gloves, safety glasses)
- Ventilate
Site Characterization

- O2/LEL
- PID
- Moistened pH Strip
- PH3 and NH3 Monitors
- Oxidizer Test Papers
- Colorimetric Tubes
- FTIR, Raman, MS
<table>
<thead>
<tr>
<th>Sample Number/ID</th>
<th>Explosive (hair pin)</th>
<th>Corrosive</th>
<th>Water</th>
<th>Cyanide</th>
<th>Fluoride</th>
<th>Oxidizer (KIO)</th>
<th>Flammable (Y/N)</th>
<th>Organophosphate/Copper Wire (Y/N)</th>
<th>GCMS, FTIR, Raman</th>
<th>Other Tests (FID, PID, hazmat, Chiralt, Orca, Etc.)</th>
<th>Sample Description and Comments</th>
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Chemical Properties & Segregation

- Use Field Screening tools from previous slide and separate into hazard classes—(i.e. separate acids and bases, fuels and oxidizers)
- Use NIOSH Guide and/or other References (SDS, WISER, CAMEO Chemical, Hawley’s, etc.)
Crime Scene Considerations

- Is it burning? Put it out?
- Sick people? Rescue them?
- Perpetrators inside? Call Police?
- Preserve what evidence you can?

specialized glassware, computers, instructions, photos (law enforcement guys know a lot more than me about this)
Questions or Comments?

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913-551-7795

Thank you for the opportunity to share with you and for the work you do everyday.