



Household Hazardous Waste Regulatory Compliance Issues

It's not just DTSC & Operations

Larry Sweetser



Presentation Objective

- Review regulatory requirements other than DTSC that impact HHW operations
- Provide information on operational aspects of HHW programs

Regulatory Requirements

Permits/Approvals

- EPA ID number
- Permit-by-Rule (PBR)
 - Permanent
 - Temporary
 - Recycle-Only (ABOP)
- Universal Waste Handler Registration
- Phase 1 Environmental Assessment
- Engineer Certification – Tanks, Lockers
- Financial assurance
- Spill Prevention Control and Countermeasure
- Home-generated Sharp Consolidation Point
- Hazardous Materials Business Plan
- *Do not forget CEQA and Land Use*



Regulatory Requirements

- Title 22 – California Hazardous Wastes
 - Health & Safety Code
- Title 8 – Cal/OSHA
- 49 CFR – HazMat Transportation
- Title 22 – Home Generated Sharps
- 49 CFR – Spill Prevention Control & Countermeasure

- Permits and approvals
- HHW exempt from federal standards

Regulatory Requirements

Title 22 = Hazardous

- PBR
- Environmental Assessment
- Engineer certification
- Transportation

Title 8 = Safety

- HAZWOPER Training
- Safety and Health Program
- Hazard Communication
- Medical Surveillance
- Personal Protection Equipment
- Also fork lift

Permit-by-Rule (PBR)

- ❑ Operator must be Public Agency
- ❑ PBR submitted to CUPA with Copy to DTSC
- ❑ Submitted in person or by certified mail with return receipt requested a minimum of 45 days in advance of the event
 - Temporary PBR (DTSC Form 8464)
 - Permanent PBR (DTSC Form 1094B)

Phase 1 Environmental Assessment

- Required within one year of starting operations and includes:

- Facility information
- Facility history
- Facility Walk-through inspection
- Areas of concern
- Assessment checklist

- Signature and certification

- owner, operator, or independent professional engineer, geologist, or an environmental assessor

State of California-California Environmental Protection Agency

Department of Toxic Substances Control

TIERED PERMITTING PHASE I ENVIRONMENTAL ASSESSMENT CHECKLIST

SECTION I: FACILITY INFORMATION

Instructions: Complete the following descriptive information about your facility. This information accurately describes the location of your facility and establishes mailing and phone contacts. If facility location and mailing address are identical, you may put "same" into facility mailing address spaces.

Type of Permit: Permit by Rule ____ Conditional Authorization ____

1. CURRENT FACILITY NAME:

PAST NAMES (Attach additional pages if necessary):

2. EPA I.D. NUMBER:

3. NAME OF FACILITY OWNER (see definition of owner):

4. NAME OF FACILITY OPERATOR:

5. NAME OF PROPERTY OWNER:

6. FACILITY LOCATION ADDRESS:

STREET:

CITY:

COUNTY:

STATE:

ZIP CODE:

Engineer Certification – Lockers

- Certify containment system
 - A base under the containers which is free of cracks or gaps and is sufficiently impervious to contain leaks, spills, and accumulated precipitation until the collected material is detected and removed;
 - The base shall be sloped or the containment system shall be otherwise designed and operated to drain and remove liquids resulting from leaks, spills, or precipitation, unless the containers are elevated or are otherwise protected from contact with accumulated liquids;
 - The containment system shall have sufficient capacity to contain precipitation from at least a 24-hour, 25-year storm plus 10 % of the aggregate volume of all containers or the volume of the largest container, whichever is greater. Containers that do not contain free liquids need not be considered in this determination;

Engineer Certification – Lockers

- Certify containment system (con.)
 - Run-on into the containment system shall be prevented unless the collection system has sufficient excess capacity in addition to that required in subsection (b)(3) of this section to contain any run-on which might enter the system; and
 - Spilled or leaked waste and accumulated precipitation shall be removed from the sump or collection area in as timely a manner as is necessary to prevent overflow of the collection system. If the collected material is a hazardous waste under chapter 11 of this division, it shall be managed as a hazardous waste in accordance with all applicable requirements

Engineer Certification – Lockers

- Engineering certification provided by:
 - a manufacturer,
 - an **independent professional engineer registered in the State of California** or
 - a professional engineer employed by the local government entity and from a different division or agency than the operator.

Engineer Certification - Tanks

- Independent, qualified, California-registered professional engineer certifies:
 - Design/configuration
 - Secondary containment
 - External corrosion protection
 - Spill prevention or overfill equipment.
- Used oil and antifreeze tanks can be exempted for three years if Fire Marshall agrees
 - See CalCUPA Guidance



Hazardous Waste Transportation

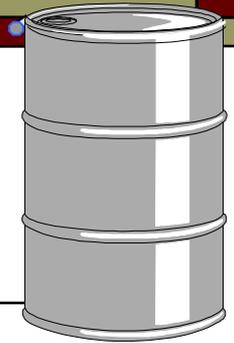
- Containers
- Shipping Records
 - Bill of Lading
 - Uniform Hazardous Waste Manifest
- Tracking shipments

49 CFR – HazMat Transportation

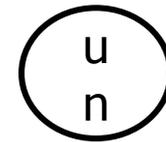
- ❑ Regulates transportation of hazardous materials and hazardous wastes
- ❑ Lists hazardous materials shipping names
- ❑ Enforced by California Highway Patrol

- ❑ *Note: public agencies using public vehicles exempt from DOT Hazardous Materials Rule but not California (Driver endorsement >1,001 lbs).*

Package Certification

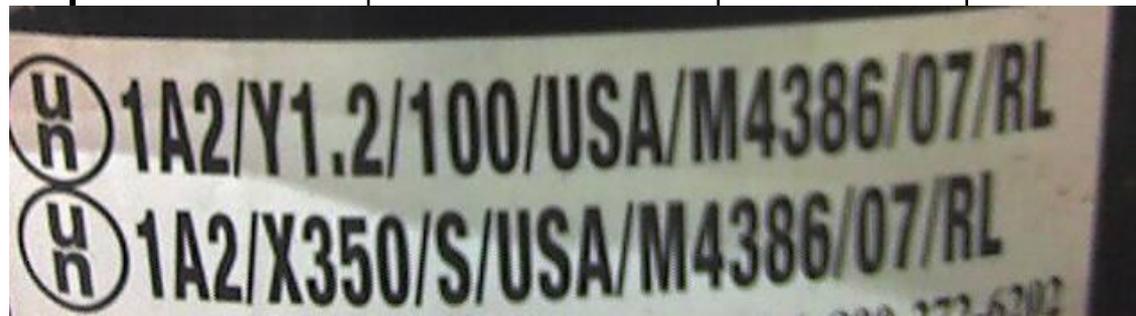


□ United Nations marking



or UN

Container type	Material	Covering	Packing Group	Weight limit	Physical State
1 = drum 4 = box 6=composite	A = steel B = aluminum G = fiberboard H = plastic N = Metal	1 = closed 2 = open	X = I,II,III Y = II,III Z = III	Decimal = specific gravity OR Kilograms (including drum)	L = Liquid S = Solid



Special Permits – get a copy



New Uniform Hazardous Waste Manifest

- Requirements
 - 40 CFR
 - Title 22
- Components
 - Federal
 - State
- Timeline
- Tracking

Please print or type. (Form designed for use on office (12-pitch) typewriter.) Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number **000754004 JJK**

5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address)

Generator's Phone

6. Transporter 1 Company Name U.S. EPA ID Number

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address U.S. EPA ID Number

Facility's Phone:

No.	Hazardous Waste Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit (Wt./Vol.)	13. Waste Codes		
		No.	Type			1	2	3
1.								
2.								
3.								
4.								

14. Special Handling Instructions and Additional Information

15. GENERATOR/SUPPORTER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/corraded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. (Certify that the waste minimization statement identified in 40 CFR 263.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.)

Generator's/Officer's Printed/Typed Name Signature Month Day Year

16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name Signature Month Day Year

Transporter 2 Printed/Typed Name Signature Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: U.S. EPA ID Number

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
----	----	----	----

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest (except as noted in item 18a)

Printed/Typed Name Signature Month Day Year

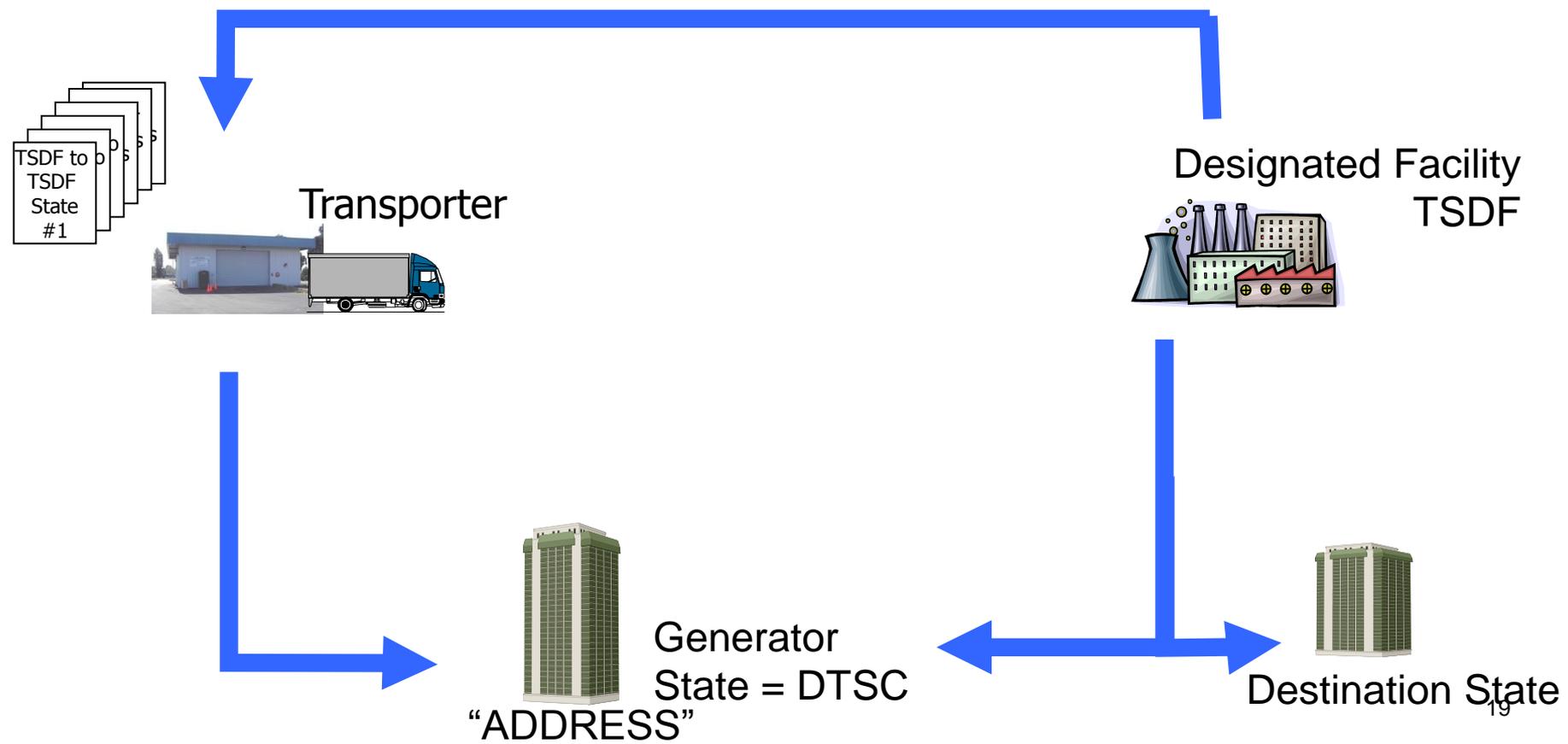
EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

NEW!

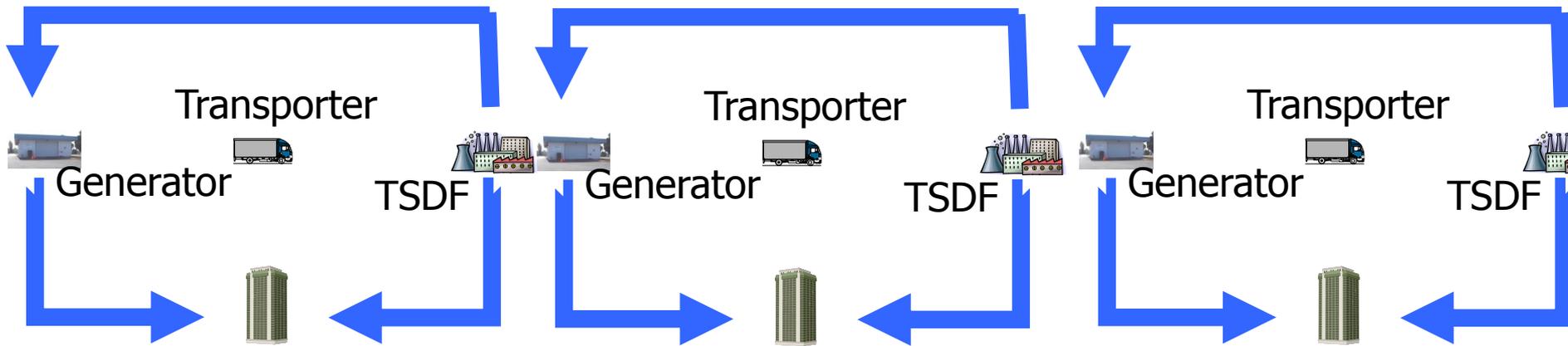
IMPROVED

Manifest Tracking Flow

Gen Copy #6 for DTSC



Multiple Facility



NOTE: Generator responsible for final disposal or treatment even if original manifest does not identify site.

21137

ASH GROVE CEMENT COMPANY
P. O. Box 612
Chanute, KS 66720
(620) 431-4500
EPA ID No. KSD0312053101

CERTIFICATE OF DISPOSAL

This is to certify that the Hazardous Waste Derived Fuel Solid Waste Derived Fuel

which was shipped by

BURLINGTON ENVIRONMENTAL
1701 E. ALEXANDER AVE.
TACOMA, WA 98421
EPA ID NO. 000257045

on May 5, 2008 under manifest number(s) 00295982133K K90695
received at our facility on June 25, 2008 was disposed of via high temperature thermal recycling
in our cement kiln on July 5, 2008 in compliance with all state and federal laws including
CFR 40 Parts 260 through 299



Randy G. Pryor, Plant Manager

21137



CERCLA (1980)

- Comprehensive
- Environmental
- Response,
- Compensation and
- Liability
- Act

Spill Prevention Control and Countermeasure

(SPCC)



A SPCC Plan is required if...

- If the facility has an aggregate aboveground storage capacity greater than **1,320 gallons** ;
and
- There is a reasonable expectation of a discharge into or upon navigable waters of the United States or ad-joining shorelines.

Define “Oil”

- Section 311(a)(1) of the Clean Water Act defines "oil" as "oil of any kind or in any form including, but not limited to, petroleum, fuel oil, sludge, oil refuse, and oil mixed with wastes other than dredged spoil." EPA interprets this definition to include crude oil, petroleum and petroleum-refined products, as well as non-petroleum oils such as vegetable and animal oils.

SPCC includes:

- All oil containers greater than 55 gallons
 - Including empty containers still usable
- Fuels
- Lubricants
- Used oil
- Transformers and electrical equipment
- Cooking oil / biodiesel

SPCC Plan

- ❑ EPA Requirement
- ❑ Enforced by CUPA
- ❑ Reviewed and certified by professional engineer (including amendments)
- ❑ Reviewed and certified every 5 years
- ❑ Available for review by agencies

Home-Generated Sharps

Sharps Ban

- Effective September 1, 2008, “Home-generated sharps waste” banned from any container used for:
 - Collection of solid waste, recyclable materials, or greenwaste.
 - Commercial collection of solid waste or recyclable materials from business establishments
 - Roll-off container used for the collection of solid waste, construction, and demolition debris, greenwaste, or other recyclable materials.
- Local governments encouraged to provide information
 - Not required to implement program
- Household sharps are not medical waste,
- No legal penalty or enforcement provisions
- SB 1305 (2006) Health & Safety Code, Section 118286.

Home-Generated Sharps Waste

- Not considered medical waste
 - Until consolidated
- Includes: hypodermic needles, pen needles, intravenous needles, lancets, and other devices that are used to penetrate the skin for the delivery of medications
- Household includes:
 - Household, multifamily residence, ranches



Home Generated Sharps Consolidation Application

State of California - Health and Human Services agency

California Department of Public Health



California Medical Waste Management Program HOME-GENERATED SHARPS CONSOLIDATION APPLICATION

Applicant Information	Transporter
Applicant	Name
Contact Person/ Title	Contact Person
Address	Address
Phone () FAX ()	Phone ()
Application Type <input type="checkbox"/> Pharmacy <input type="checkbox"/> Clinic <input type="checkbox"/> Hospital <input type="checkbox"/> Lab <input type="checkbox"/> Landfill <input type="checkbox"/> Household Hazardous Waste Facility <input type="checkbox"/> Transfer Station <input type="checkbox"/> Other _____	Hazardous Waste Registration Number
Site Name (if different from above)	Accept waste from <input type="checkbox"/> General Public <input type="checkbox"/> County <input type="checkbox"/> City <input type="checkbox"/> Members <input type="checkbox"/> Patients <input type="checkbox"/> Others _____
Address	Days of Operation <input type="checkbox"/> 5 days/week <input type="checkbox"/> 7 days/week <input type="checkbox"/> Other _____
Contact Person/ Title	
Phone () FAX ()	
Type of Collection Unit <input type="checkbox"/> Kiosk <input type="checkbox"/> Wall-mounted <input type="checkbox"/> Mail-Back Sharp System: (Company) _____ <input type="checkbox"/> Other _____	
Description of Secured Storage Area:	
List this consolidation point on the CDPH website? <input type="checkbox"/> yes <input type="checkbox"/> no	Public Contact Phone:

Home Generated Sharps Consolidation Point

- Submit application for approval by Medical Waste Local Enforcement Agency – *No SQG fee*
- HGS are not regulated as medical waste but after collection, shall be transported and treated as medical waste
- Request additional time
- Must comply with all of the following:
 - All sharps waste shall be placed in sharps containers,
 - Sharps containers ready for disposal shall not be held for more than seven days without the written approval of the enforcement agency.

Hazardous Materials Business Plan

- Required for any facility *handling, at any time, any individual hazardous material in an aggregate amount equal to or greater than 55 gallons (liquids), 500 pounds (solids), or 200 cubic feet (gases).*
- Submittal to CUPA
- <http://www.calcupa.net/>
- <http://www.unidocs.org/hazmat/business-plan/index.html>



CEQA and Land Use

- ❑ May contain restrictions on use of hazardous materials or hazardous wastes
- ❑ Verify zoning is appropriate
- ❑ Contact local planning agency



Operational Requirements

- ❑ Public Education
- ❑ Operations Plan
- ❑ Training Requirements
- ❑ Personal protective equipment (PPE)
- ❑ Operational procedures
- ❑ Waste handling and classification
- ❑ Reuse/Material Exchange
- ❑ Facility Inspection



Operations Plan – Title 8

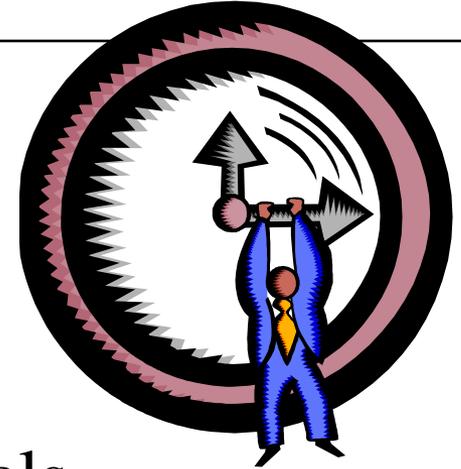
- ❑ Safety and Health Plan
- ❑ Hazard Communication Program
- ❑ Medical Surveillance Program
- ❑ Decontamination Program
- ❑ New Technology Program
- ❑ Material Handling Program
- ❑ Training Program
- ❑ Emergency Response Plan

HAZWOPER

- **Hazardous Waste Operations and Emergency Response**
- Federal 29 CFR §1910.120
- California Code of Regulations §5192
 - (D) HHW Operations
 - (E) Emergency response operations for releases of, or substantial threats of releases of, hazardous substances without regard to the location of the hazard.

Training Frequency

- Initial
- Refresher/Annual
- Periodic
 - Change in process or new chemicals
 - In response to incidents
 - New requirements
 - Interest



Training Methods

- ❑ Annual Refresher
- ❑ Tailgate Safety
- ❑ On-the-job training
- ❑ On-line Courses
- ❑ Site Specific Requirements
 - Must be included
- ❑ Equivalent documentation or certification of work experience or training





Training Requirements

- HAZWOPER
- Universal Waste
- DOT Hazardous Materials Transportation
- Personal Protective Equipment
- Bloodborne pathogens



HHW Facility Personnel Training

- Initial training is 24 hours
- Annual refresher training is 8 hours
- Written certificate attesting that they have successfully completed the necessary training.
- Title 8, Section 5192, (p)(7)

Household Hazardous Waste Training Matrix

Topic/Job Function-Activity	Hours	Frequency	Receiving	Packaging	Building	Unknowns	ABCOP Program	Aboveground tank	UST	Emergency Responder	CRT Handling/Dismantlement	Forklift Operator	Asbestos - Friable	Asbestos - Nonfriable	Air compressor	Radiation Safety	Medical waste
40-hour (Title 8, Section 5192)	40 (R)	I & A															
24-hour (Title 8, Section 5192)	24 (R)	I & A															
8-hour (Title 8, Section 5192)	8 (R)	I & A															
DOT 49CFR 172.704	2 - 6	I+3 years															
Respiratory Protection	1	I & A															
Hearing Conservation	1	A															
First aid	2	P															
CPR	2	P															
Fire Extinguisher	1	I & A															
PPE	1 - 4	I & A															
ER awareness	1 - 4	I & A															
ER Level 1	8	A															
ER level 2	8	A															
SPCC (>1,320 gal)	1	I & A															
Lead	1	I & A															
CRT	0.5	I & A															
Bloodborne Pathogen	0.5 - 6	I & A															
Forklift	4	I & A															
Hazoom	1	I & A															
Asbestos	1	I & A															
IIPP	2	I & A															
Lock-out/Tag-out	0.5	I & A															
Ergonomics	1	P															

A = Annual and Initial
 I = Initial
 P = Periodic, as needed

Other Potential Trainings:
 Accident investigation; electrical safety; emergency action/response plans; lab safety; bonding and grounding; tool safety; machine guard training; fall protection; safety inspections.

Operational Requirements



Personal Protective Equipment



Why PPE is Used



Aerosol paint can
exploded while
cleaning bale

Personal protective equipment (PPE)

- ❑ Administrative and engineering controls assessment required before issue PPE
- ❑ Training required
- ❑ PPE is a temporary barrier





Limitations of PPE

- ❑ Impairs mobility, vision, and communication
- ❑ Incompatible with other PPE
- ❑ Problems with mask fit
- ❑ Can cause physical and psychological stress
- ❑ Heat stress
- ❑ Hinders work performance
- ❑ Limits active work time

Safety Glasses

- Rated for impact
 - ANSI Z87 or Z94 (Canadian)



Safety Glasses With Vented Side Shields (Impact Only)



Safety Glasses With Nonvented Side Shields (Impact Only)



Visorgogs® (Impact Only)



Impact Safety Goggles (Impact Only)

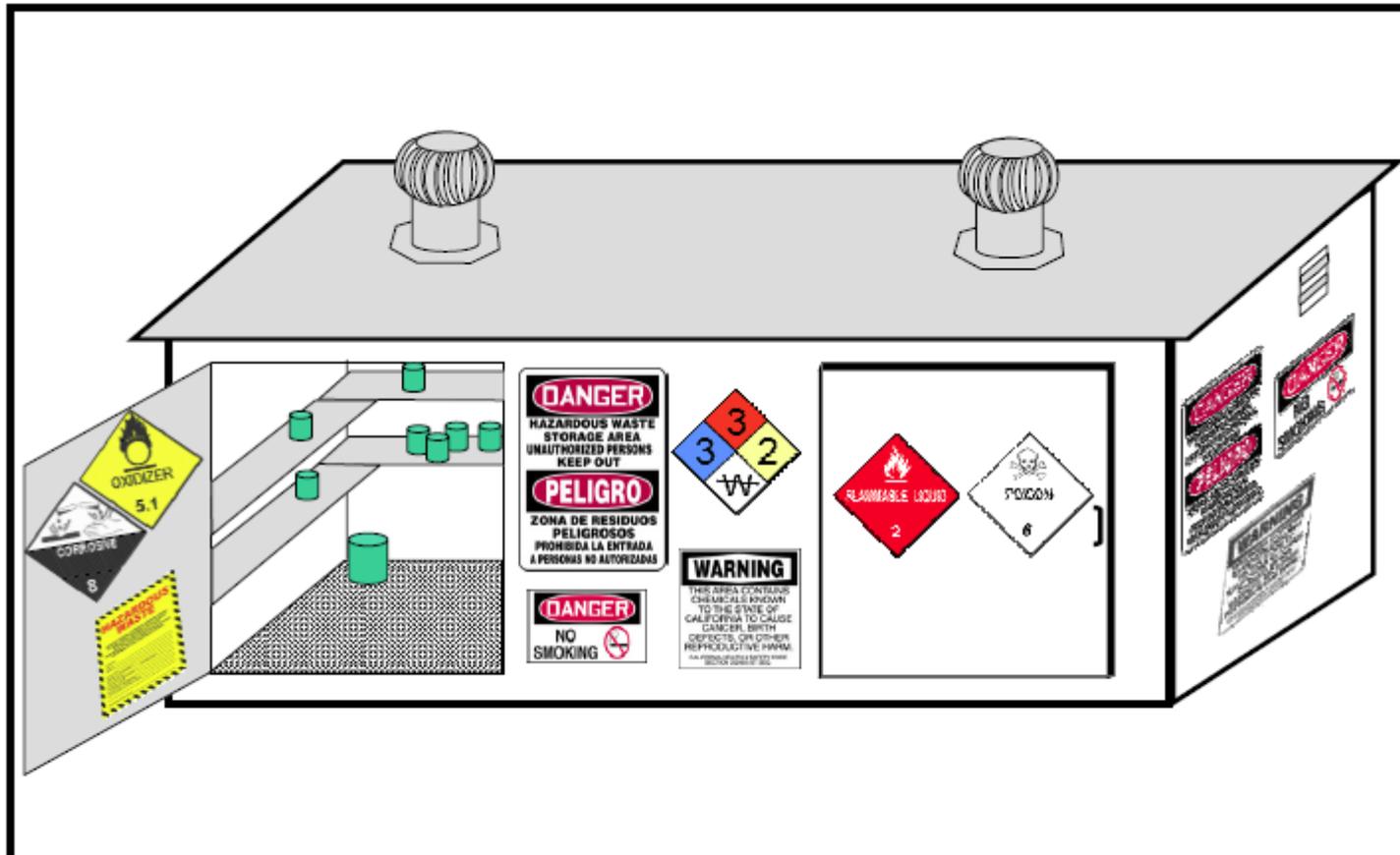


Signage

- Visible from all approaches
- Legible from a distance of at least 25 feet.
- Language on the signs will be in English, Spanish and in any other language predominant in the area surrounding the facility



Facility Signage

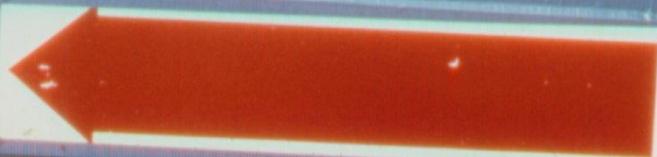


Household Hazardous Waste Locker Signage Locations

Side signs should be repeated on both sides and back of locker to be visible from all directions.
Door DOT hazard class signs need to also be visible when doors are open.



**HOUSEHOLD
HAZARDOUS
WASTE DAY**



COUNTY OF NAPA

One Type of Directional Sign

















MADE IN U.S.A.
2891 B
BARKER

PRESTONE
00552
AF-552
NET WEIGHT 12.5 LBS (5.7 KG)
Prestone
AF-552
00552
Prestone
WINTER/SUMMER
NET WEIGHT 12.5 LBS (5.7 KG)



SMOKING
FUMAR

Cal EPA
Award
Winning
Facility

Best New
Hazardous
Collection



CAUTION
Hazardous Waste Storage Area
No Smoking, No Open Flame
No Food or Drink
No Pets
No Cell Phone Use
No Alcohol Consumption

WARNING
Hazardous Waste Storage Area
No Smoking, No Open Flame
No Food or Drink
No Pets
No Cell Phone Use
No Alcohol Consumption





Oops!



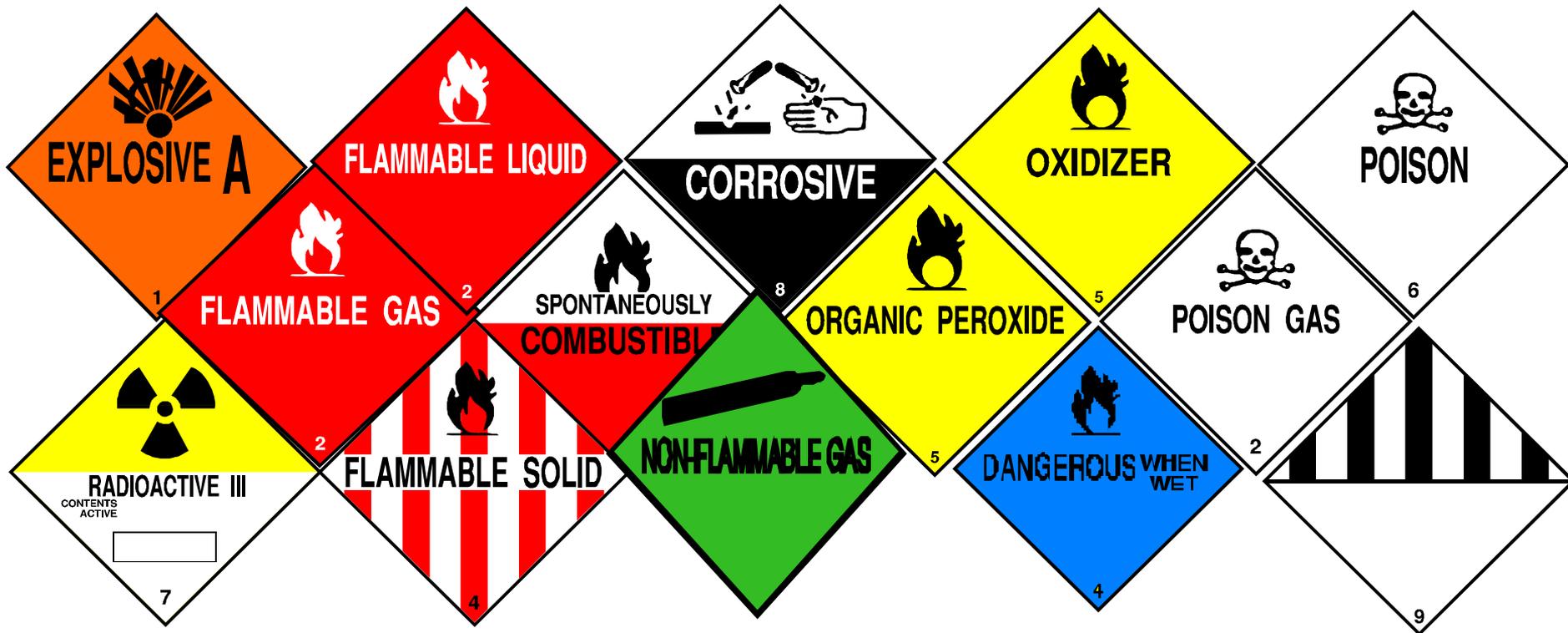
Post- Bulking Exercise





This is why HHW goes in the trunk

DOT Hazard Class Label(s)

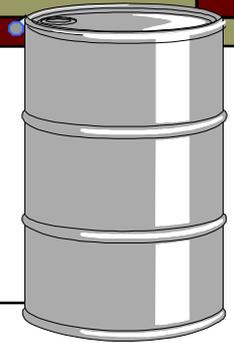


Hazardous Wastes Label

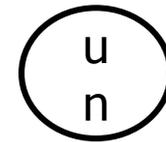
- Every container has:
 - “Hazardous Waste”
 - Composition and physical state
 - Hazardous property(ies)
 - e.g. Ignitable, reactive, corrosive
 - Name and address of generator

- Few exceptions

Package Certification

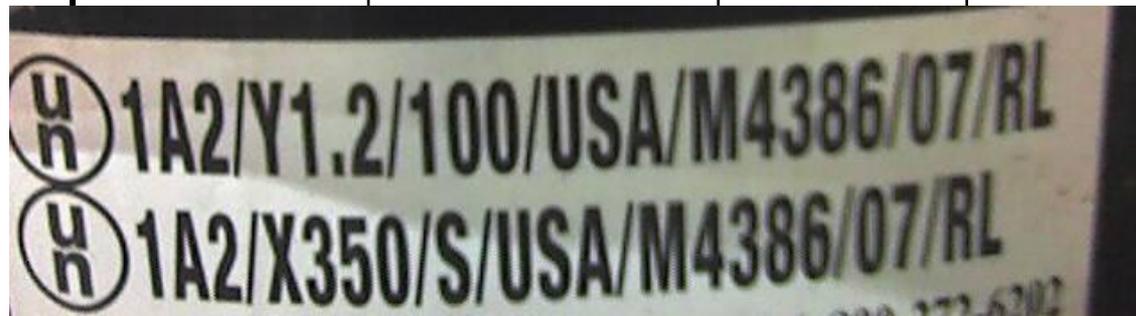


□ United Nations marking



or UN

Container type	Material	Covering	Packing Group	Weight limit	Physical State
1 = drum 4 = box 6=composite	A = steel B = aluminum G = fiberboard H = plastic N = Metal	1 = closed 2 = open	X = I,II,III Y = II,III Z = III	Decimal = specific gravity OR Kilograms (including drum)	L = Liquid S = Solid



Electronics/CRT Differences

Electronic Devices	CRT	CRT Glass
		
<h2>Storage Label</h2>		
<p>Universal Waste—Electronic Device(s)</p>	<p>Universal Waste—CRT(s)</p>	<p>Universal Waste—CRT Glass</p>

Universal Waste Label

UNIVERSAL WASTE -

BATTERIES



CRTs



CRT Glass

ELECTRONIC DEVICES



LAMPS

MERCURY CONTAINING EQUIPMENT

Accumulation Date: _____

Label - Used Oil

- “Used Oil”
- “Hazardous Waste”
- Accumulation Date
 - Shipment label not needed

**HAZARDOUS
WASTE**

FEDERAL LAW PROHIBITS IMPROPER DISPOSAL
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY
AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY

CA WASTE NO. 221 E.P.A. WASTE NO. N/A

D.O.T. PROPER SHIPPING NAME Non-RCRA Hazardous Waste Liquid UN OR NA NO. N/A

GENERATION NAME Anarchist, Inc.

ADDRESS 1976 Bad Stuff Lane

CITY Everywhere STATE CA

E.P.A. ID. NO. CAH000123456

PHYSICAL STATE

LIQUID SOLID GAS

HAZARDOUS PROPERTIES

TOXIC FLAMMABLE
 CORROSIVE REACTIVE

WASTE ACCUMULATION & PICK UP		
START	PICK UP	MANIFEST NUMBER
2/31/08	/ /	
/ /	/ /	
/ /	/ /	
/ /	/ /	
/ /	/ /	
/ /	/ /	
/ /	/ /	

CONTENTS: USED OIL

COMPOSITION: USED OIL

HAZARDOUS WASTE HANDLE WITH CARE

Used Oil Filters

- “Drained used oil filters”
 - &Accumulation Date
- “Used oil and gasoline filters”
 - &Accumulation Date
- BTW – used oil filters are never empty

Pick one?



???

NON-HAZARDOUS WASTE
This waste is not regulated by 40CFR Part 261
but may be subject to Department of Transportation regulations.

Generator - Epa Id CAH 111 000 720 Phone

Proper D.O.T. Shipping Name
UNIVERSAL WASTE ELECTRONIC DEVICE(S)

Waste Categ: DIR01 Order: Accumulation Date: 12/4/10
Profile#: WCRRUWASTE-01 Doc#: Manifest: Line#:
WCN: UNIVERSAL WASTE ELECTRONIC EQUIPMENT FOR RECYCLE
Hazardous Properties: Toxic Physical State: Solid

Toxic Solid ?



Hazardous Waste ??



Pool Chemicals for Reuse



Inspection – How Many Issues?





FLAMMABLE
POISON

100% RESISTANCE

GULLOCH
BRANDON TR

BASE

HAZARDOUS WASTE







COM
LEVEL
LOAD

CAUTION
HAZARDOUS WASTE
STORAGE AREA
UNAUTHORIZED PERSONS
PROHIBITED

CUIDADO
ZONA DE RESIDUOS
DAÑEROSOS PELIGROSOS
LA ENTRADA
A ESTAS NO ESTÁ PERMITIDA

EMERGENCY FIRST AID
SITE OF IMMEDIATE FIRST AID ACTION

1. Stop the process or activity if you can do so safely.	2. Notify the appropriate personnel.
3. Provide first aid to the injured person.	4. Report the incident to the appropriate personnel.
5. Do not move the injured person unless necessary.	6. Do not touch or handle any materials.
7. Do not breathe any vapors or fumes.	8. Do not drink any liquids.
9. Do not eat any food.	10. Do not use any tools or equipment.
11. Do not use any electrical equipment.	12. Do not use any fire extinguishers.
13. Do not use any other equipment.	14. Do not use any other resources.

EMERGENCY
BLANKET

15225A

CAUTION
DOOR OPENS
OUTWARD

== **NO** ==
SMOKING

== **NO** ==
SMOKING



HHW Bad Stuff

Be Prepared for these!



CONTENTS 1 U.S. QUART

CHLOR-THANE

SPRAY CONCENTRATE

CONTAINS

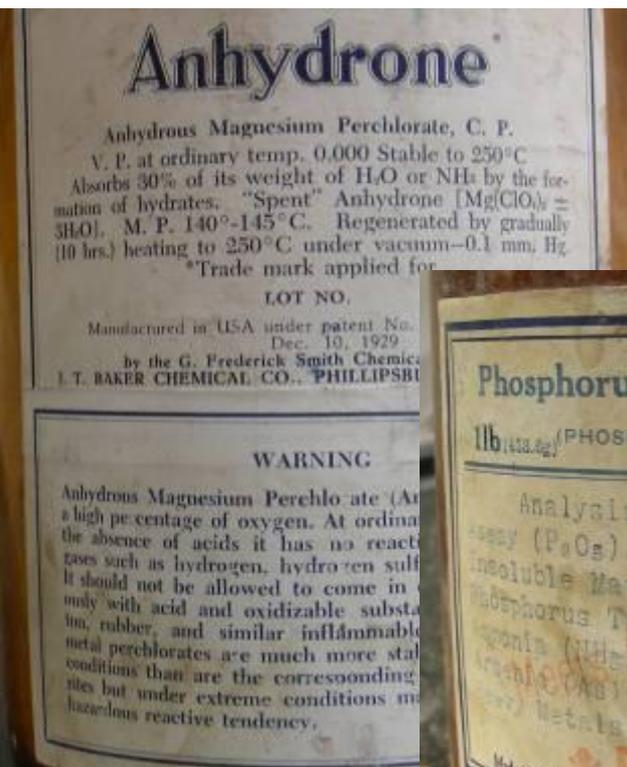
Chlordane 25%	Malathion 12.5%
Lindane 5%	Organic Thiocyanates 1.5%

KILLS

LAWN MOTH WORMS • ANTS • EARWIGS
CUTWORMS • WIREWORMS • RED SPIDERS
APHIS • MEALYBUGS • SOFT BROWN SCALE
WHITE FLIES • ELM LEAF CATERPILLARS
BLACK WIDOW SPIDERS • SAND FLEAS
SCORPIONS



Lab Chemicals & Labels

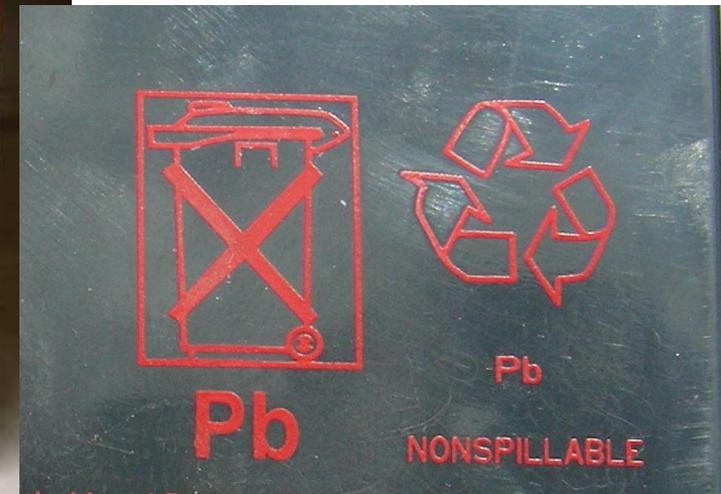
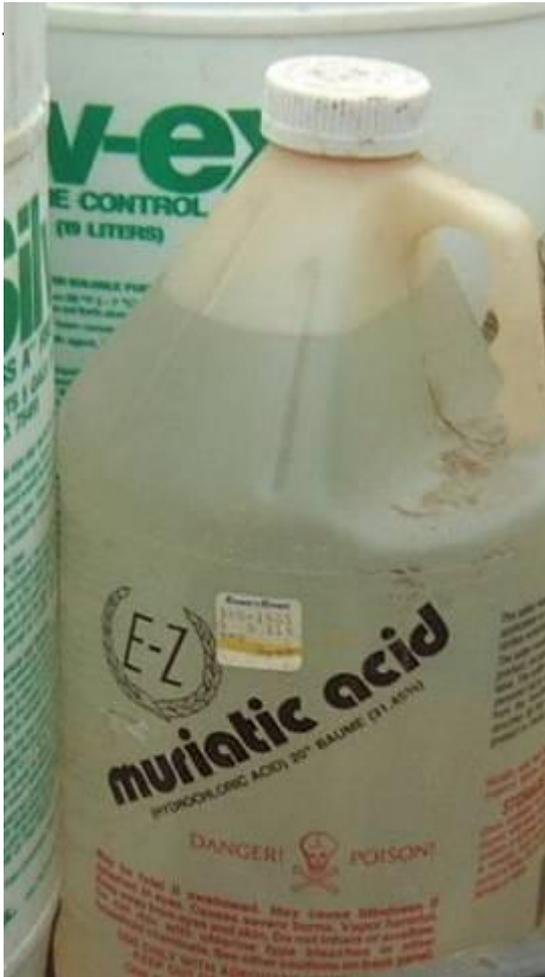




Brown Vapor



Acid





UNRECOMMENDED ACID LIQUID SOLUTIONS & 100-11000, P01 (1)

CORROSIVE

8

UNRECOMMENDED ACID LIQUID SOLUTIONS & 100-11000, P01 (1)
 PEPSI PEPSI CO., INC.
 CANTON, MASSACHUSETTS 01921

CONTAINER NOT FOR REUSE

**5 UNITS
 PEPSI-COLA
 FLAVORING COMPONENT NO. 1**

SEE SEPA LIFE
 INSTRUCTIONS FOR
 RECOMMENDED USE



CAUTION: STORE BELOW
 50°C (125°F)

DO NOT FREEZE
 MIX WELL
 BEFORE USING

35005*02

All flavor ingredients contained in this product are approved for use in a
 regulation of the Food and Drug Administration or are listed as Generally
 Recognized As Safe on a reliable published industry association list.

INGREDIENTS: CARAMEL COLORED, SUGAR,
 TREATED WATER, PHOSPHORIC ACID,
 CITRIC ACID AND NATURAL FLAVORS.

NET CONTENTS: 189.2 LITERS
 (50.0 GALLONS)

PC-1902

BATCH 406P01

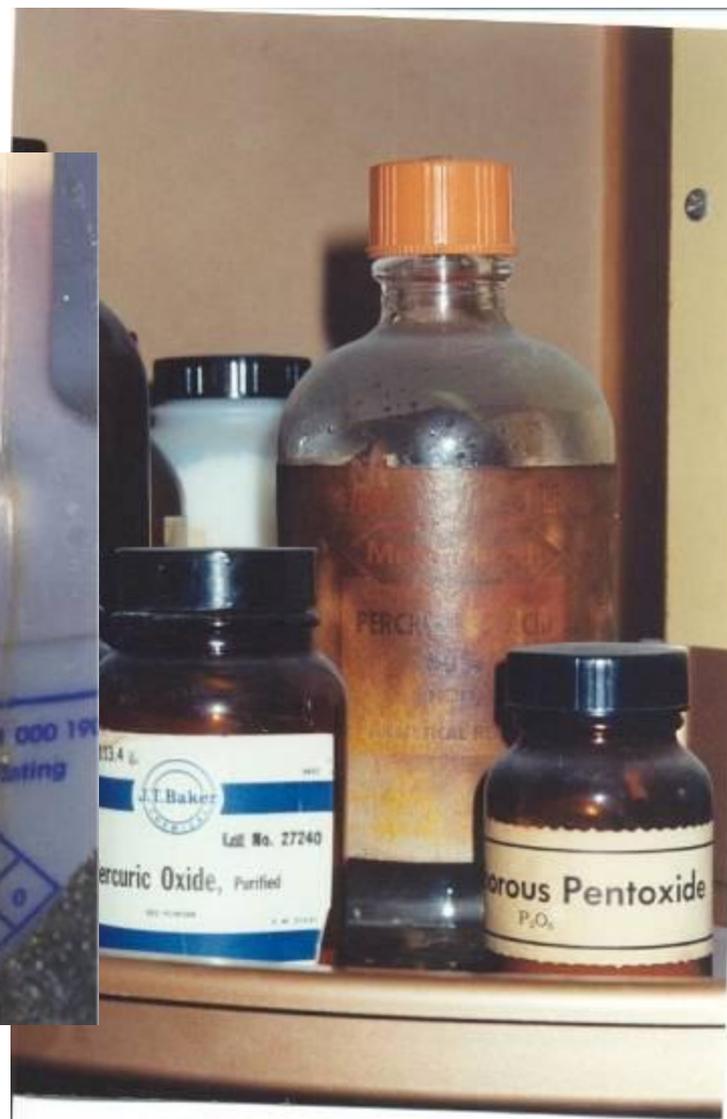
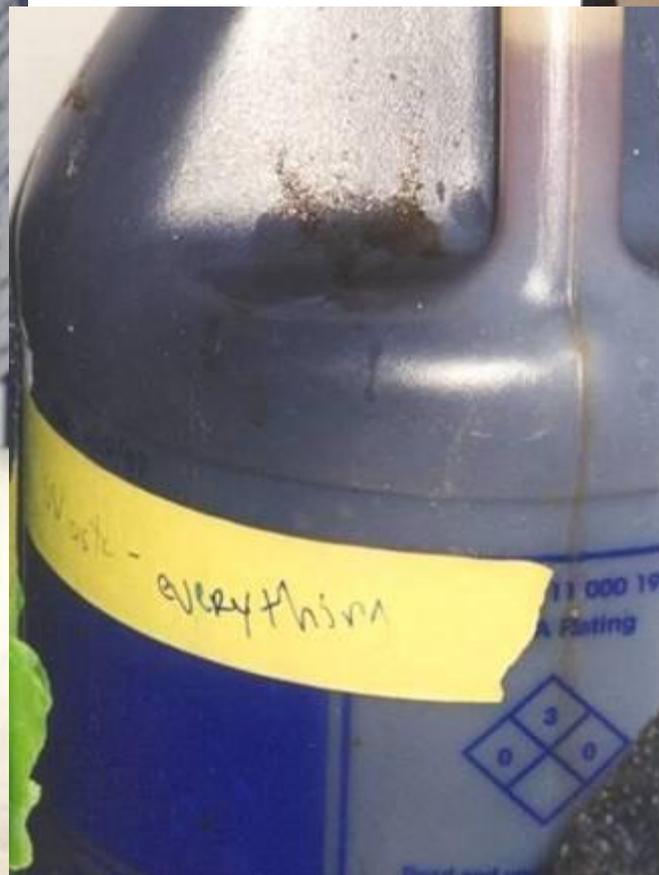
SHIP BY MAR. 18 2002

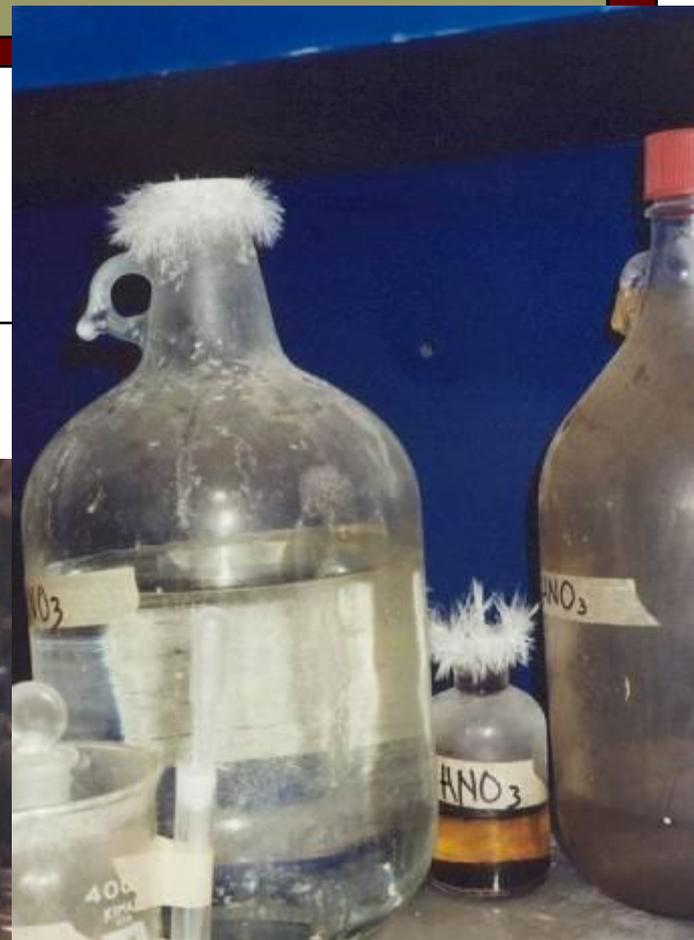
USE BY MAY. 17 2002

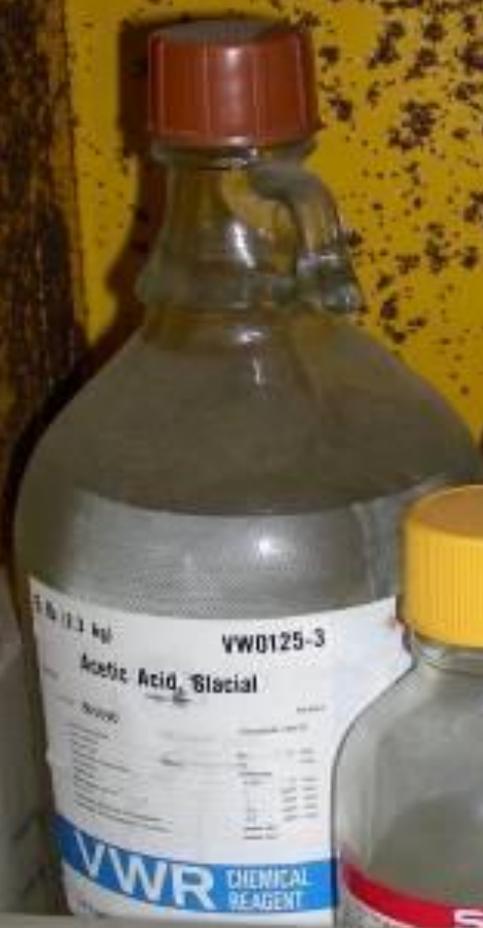


Lab Chemicals





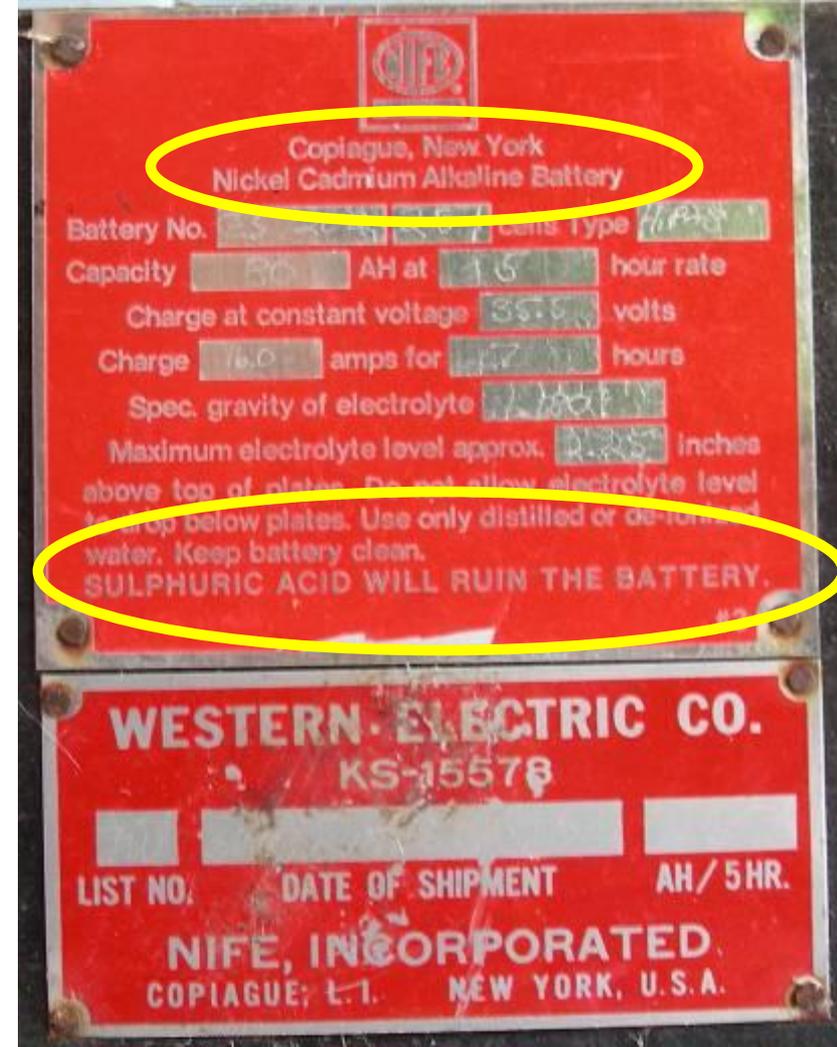




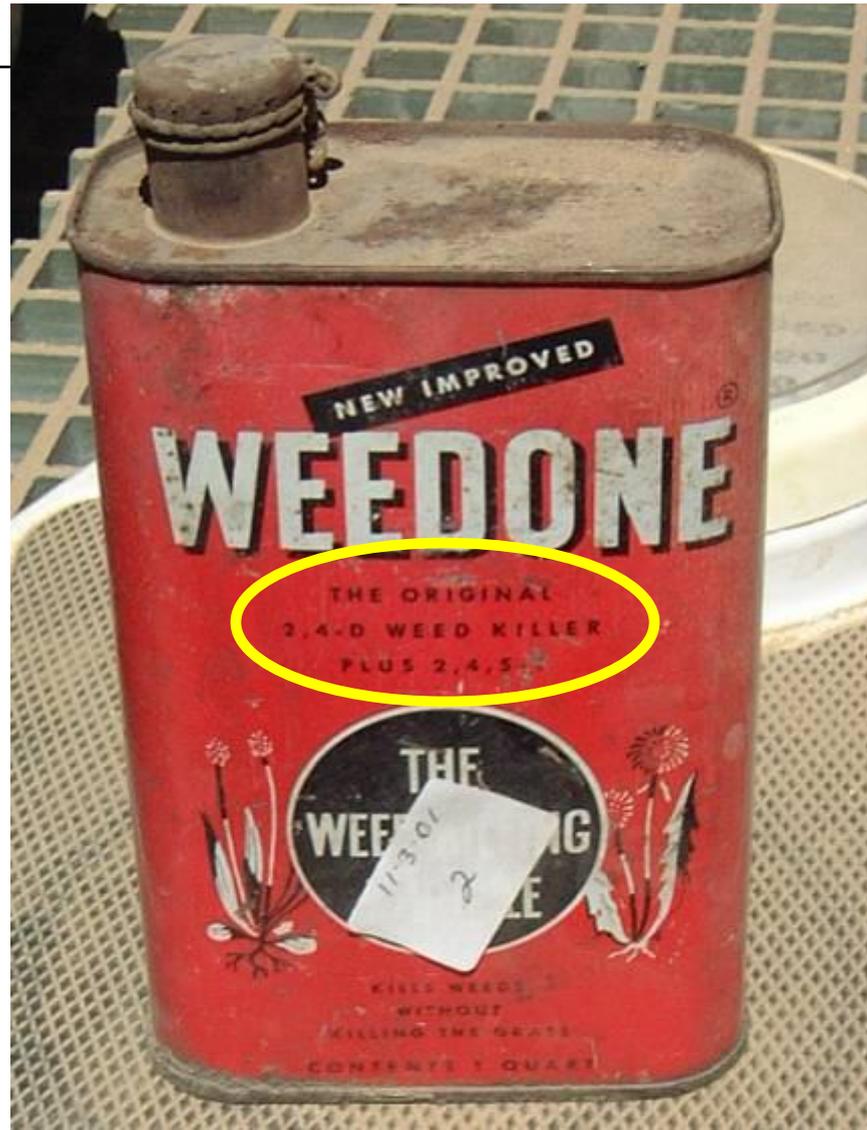
8.



Battery



Weedone, New Improved



Ice Cream Syrup?



AEROSOL INSECTICIDE BOMB
containing DDT and Pyrethrum extract
EFFECTIVE AGAINST INSECTS

such as

FLIES, MOSQUITOES, GNATS

INGREDIENTS

ACTIVE 16 1/2 %

INACTIVE

• Difluorodichloro Methane 83 1/2 %

WALTER KIDDE & COMPANY, INC.

BELLEVILLE, N. J., U.S.A.

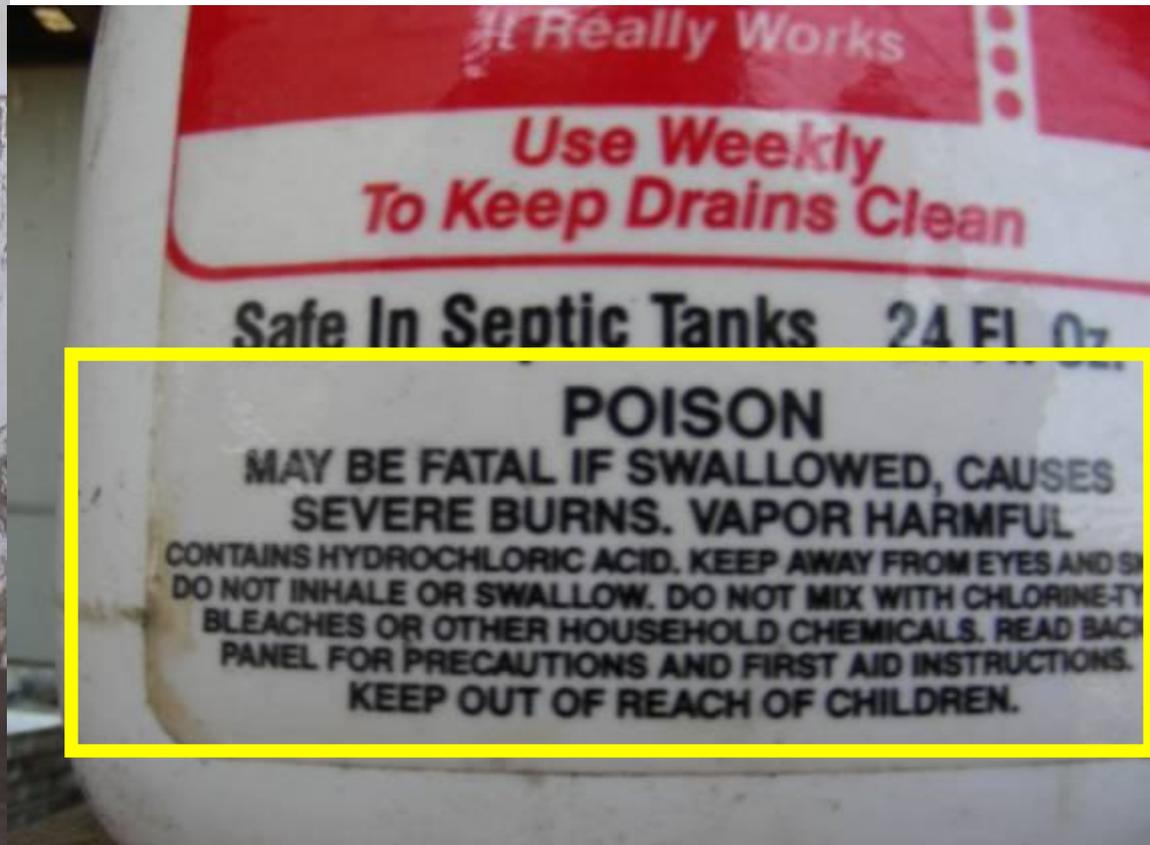
CONTRACT No. W28-021-QM-26855

CAUTION

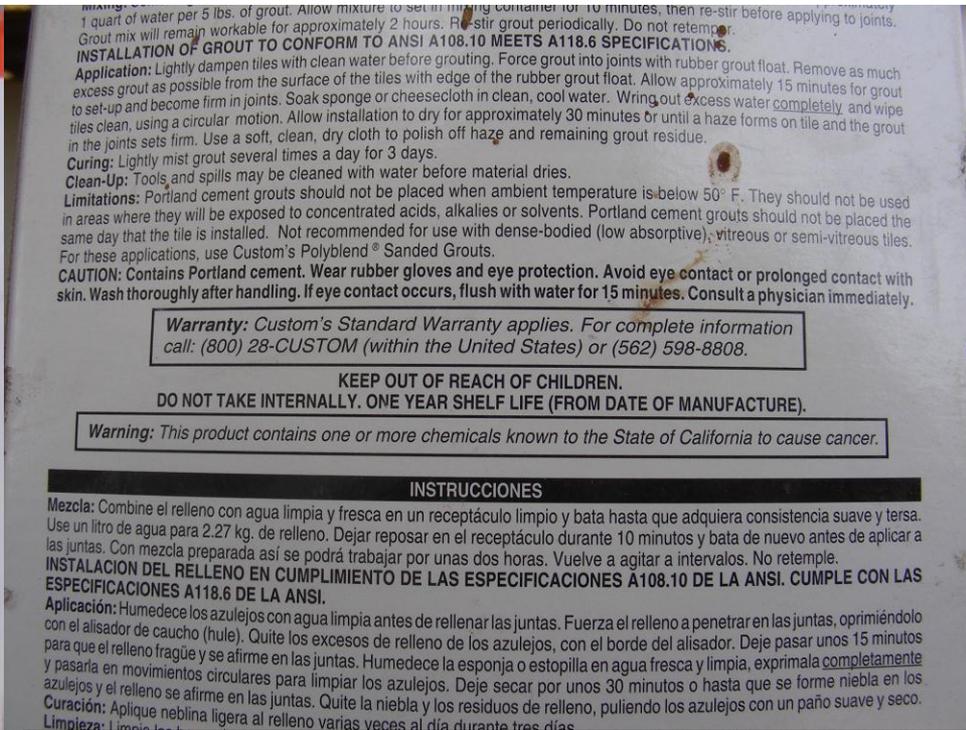
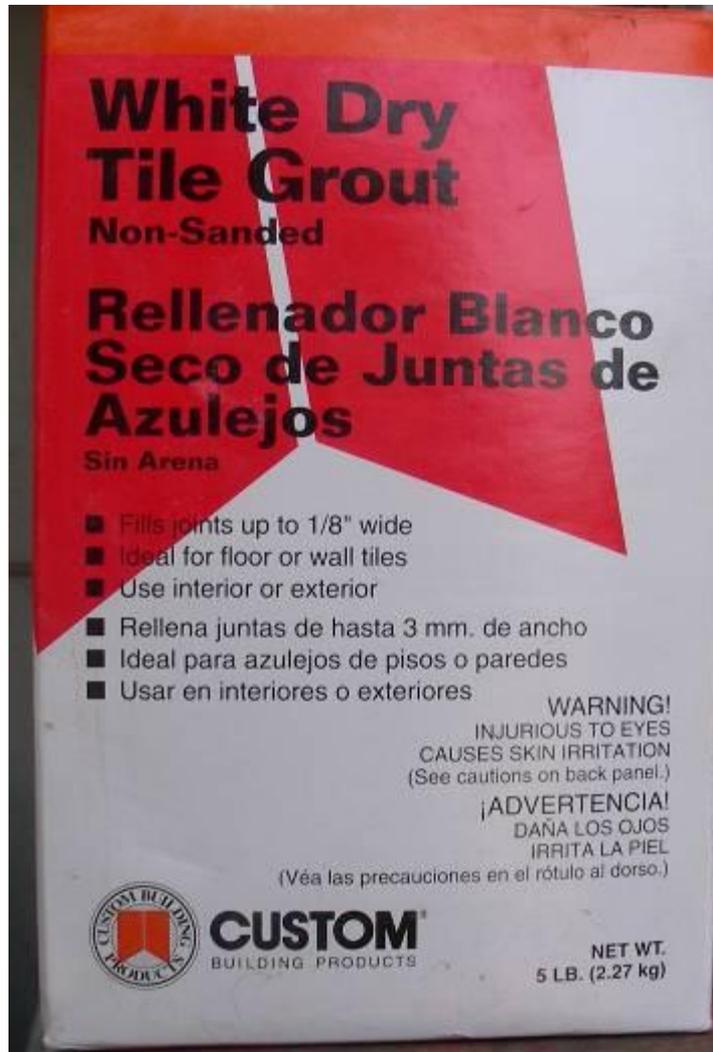
Avoid contact with skin and
don't spray on food. Avoid exces-
sive breathing of spray. If taken
internally, use emetic of mustard.

Net Contents 10 GMS

Drain Cleaner - Other

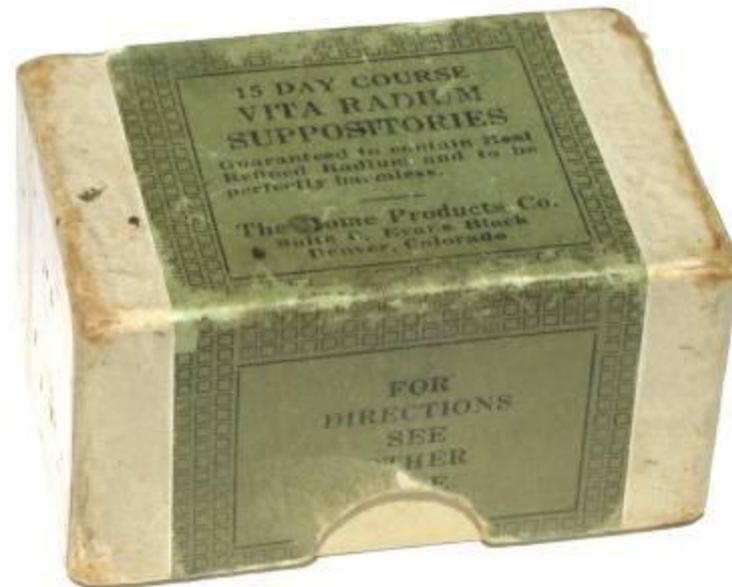


Tile Grout



Proposition 65 = Carcinogen = HW Poison

Health Solution



No Joke!



BLASTING CAPS

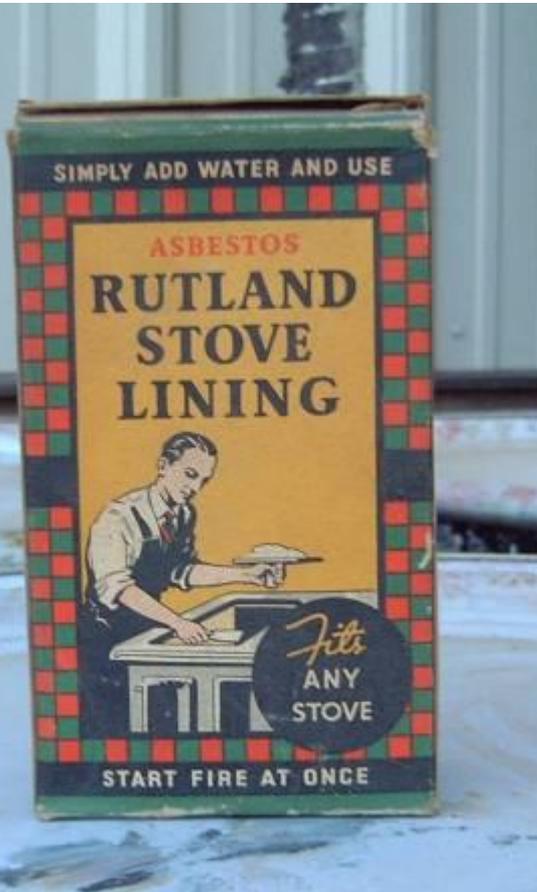


Electric Caps

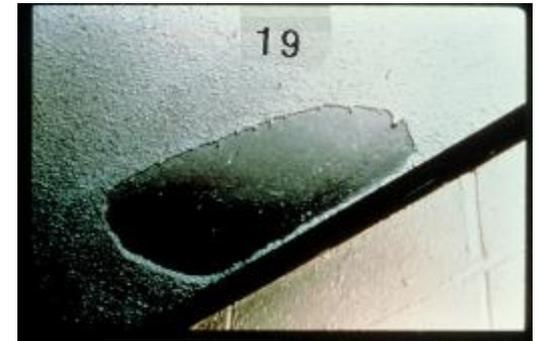
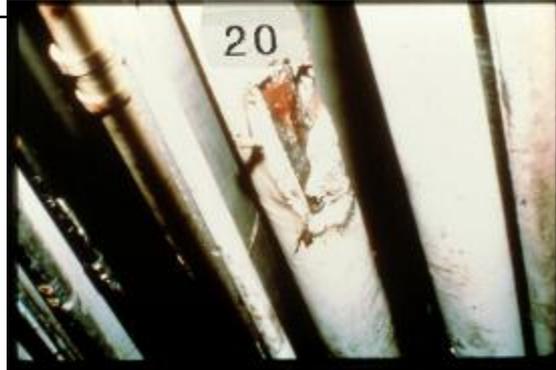


**Blasting caps are dangerous,
PLEASE DO NOT HANDLE!**

Asbestos



Asbestos



ATOMIC ENERGY LAB



▶ **ATOMIC CLOUD CHAMBER with PROJECTOR ILLUMINATOR**
See the vapor trails of alpha and beta particles, and of cosmic rays.

▶ **SPINTHARISCOPE** - Shows exploding atoms.

▶ **ELECTROSCOPE** - Measures background radiation and tests sample sources.

▶ **SAFE RADIOACTIVE MATERIALS** Alpha source in handy container and Uranium Ore.

FULL INSTRUCTIONS COVER USE AND THEORY



FUN

EASY

EXCITING

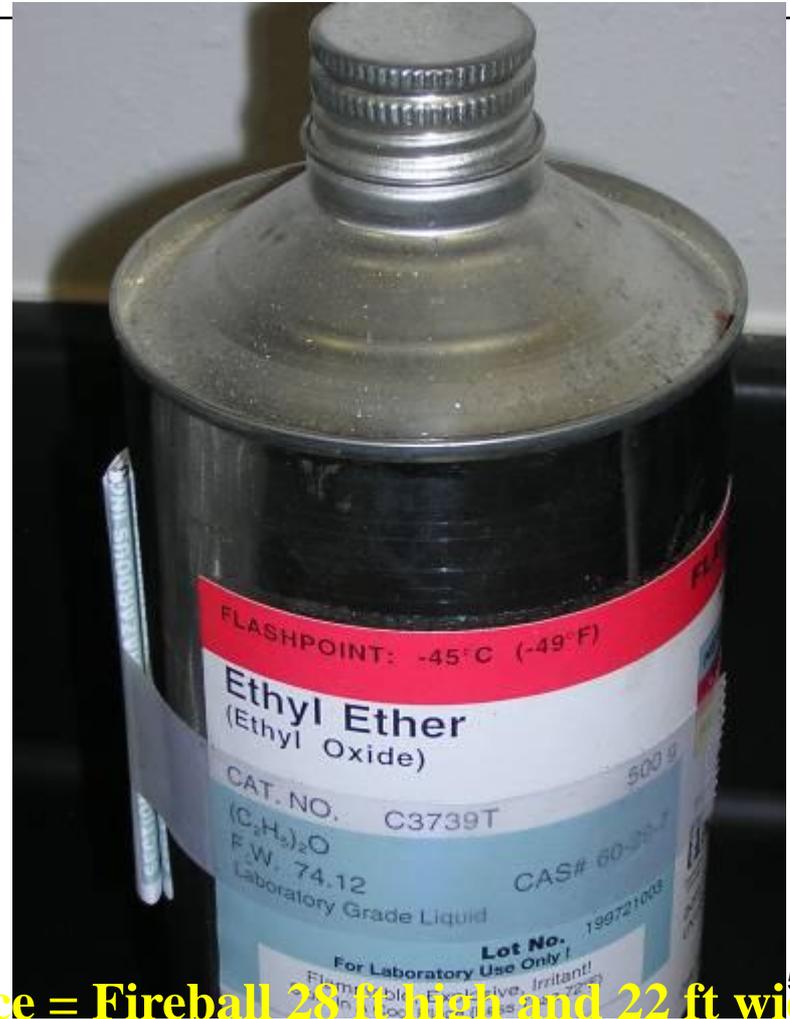


Juice Jar



Before/After

- 3 ounces Ethyl Ether
- 250 ml container
- 15 years old



Ignited with small initiating device = Fireball 28 ft high and 22 ft wide





Coupled induction powered cereal packet

