

EPA sued to list PVC as HW

B. Summary of the Petitioner's Requested Changes

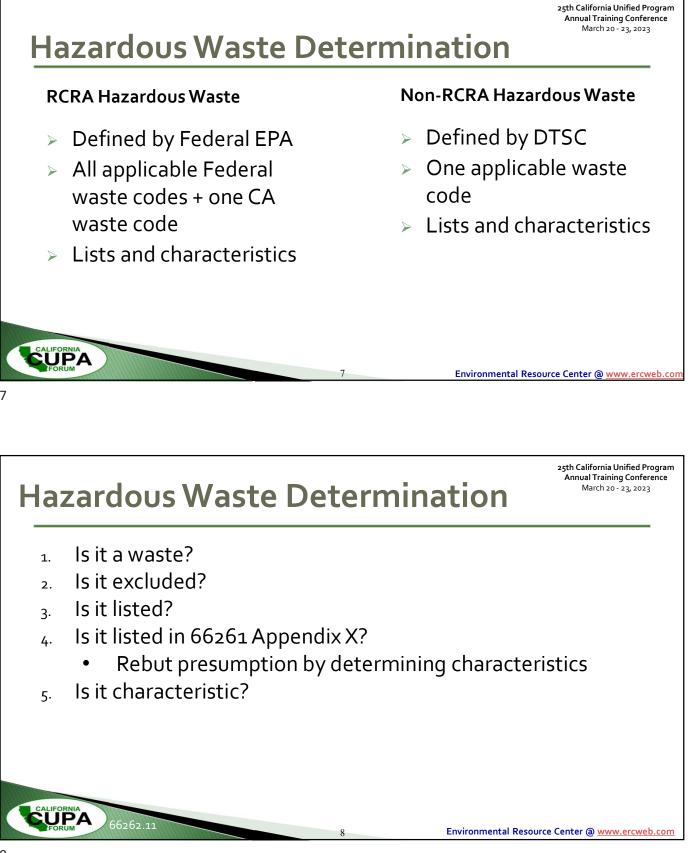
The EPA has been petitioned to "promulgate regulations governing the safe treatment, storage and disposal of PVC, vinyl chloride and associated dialkyl- and alkylarylesters of 1,2benzenedicarboxylic acid, commonly known as phthalate plasticizers."

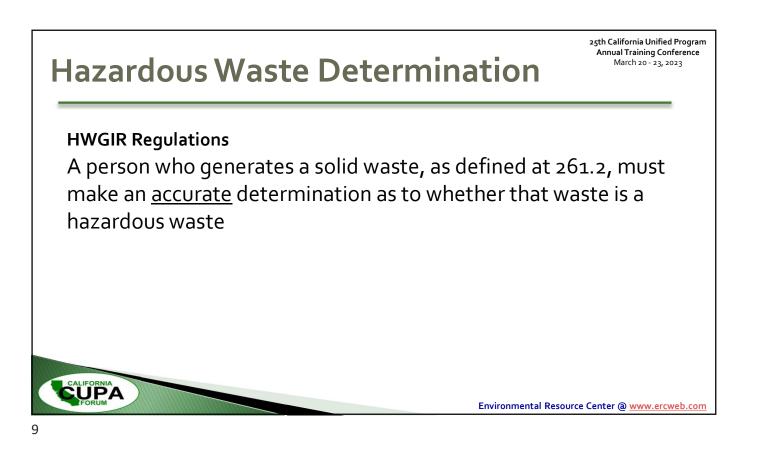
CBD requests that discarded PVC be listed as a hazardous waste, which would require a narrative listing of discarded PVC from non-specific sources be added to the "F" list under 40 CFR 261.31, the requirements for which are specified in 40 CFR 261.11. 25th California Unified Program Annual Training Conference March 20 - 23, 2023 for the EPA's Tentative

IV. Reasons for the EPA's Tentative Denial of the Petition

A. Petition Does Not Adequately Support Regulation of Discarded PVC Under RCRA

The Petition does not provide sufficient evidence to suggest that listing discarded PVC as a hazardous waste would have a meaningful impact, if any, on reducing exposure to phthalates, including phthalates used as plasticizers in some PVC products. The rulemaking the petition is seeking under RCRA is, by definition, limited to hazards that present a substantial present or potential hazard to human health or the environment when solid waste is improperly treated, stored, transported or disposed of, or otherwise managed (40 CFR 261.11), which does not appear to correspond to the studies or data cited in the petition. As a result, the information provided about potential exposures during use of PVC is not relevant. Environmental Resource Center @ www.ercweb.com



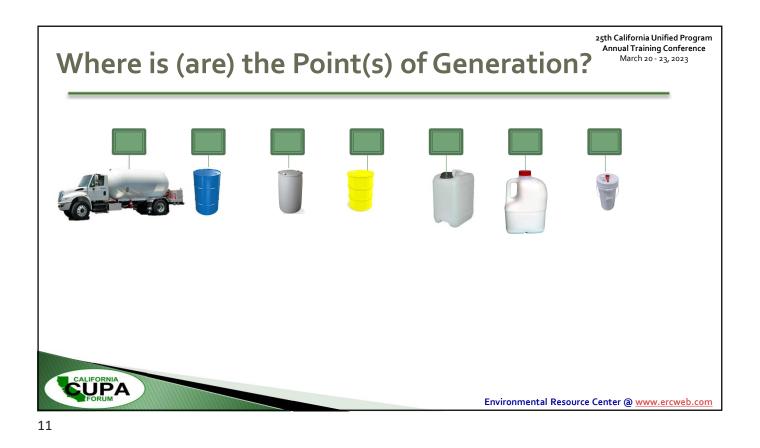


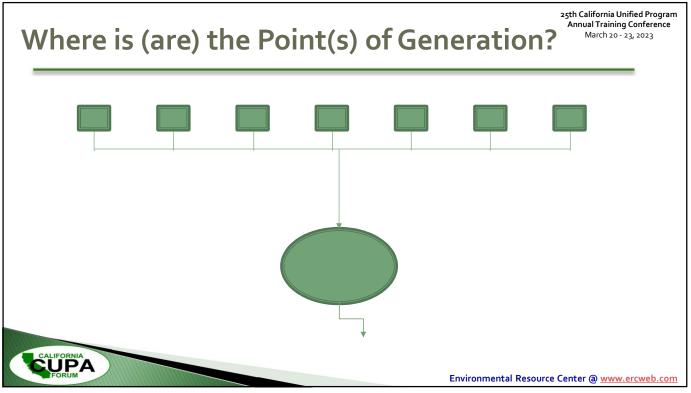


HWGIR Regulations

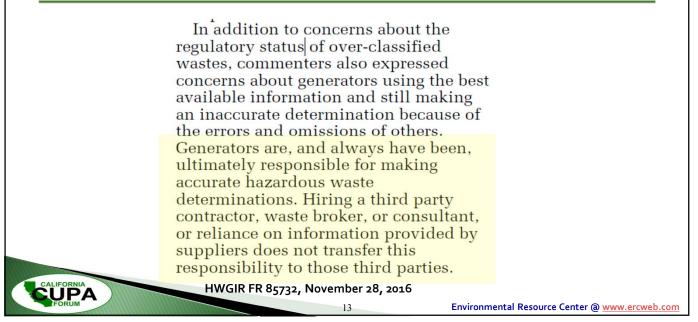
Hazardous waste determination must be made

- At the point of generation
- Before any dilution, mixing, or other alteration, and
- Any time waste has changes





Hazardous Waste Determination



Point of Generation

Point of Generation is NOT

- > When I get around to it
- > When I say it out loud
- > When the drum is full
- > After analysis is returned
- > When my TSDF gets back to me

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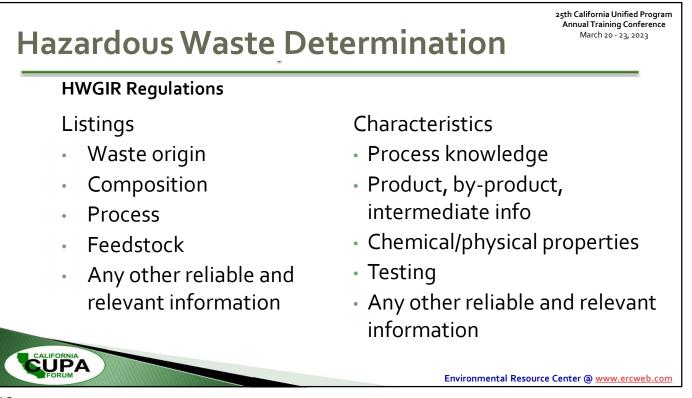
Hazardous Waste Determination

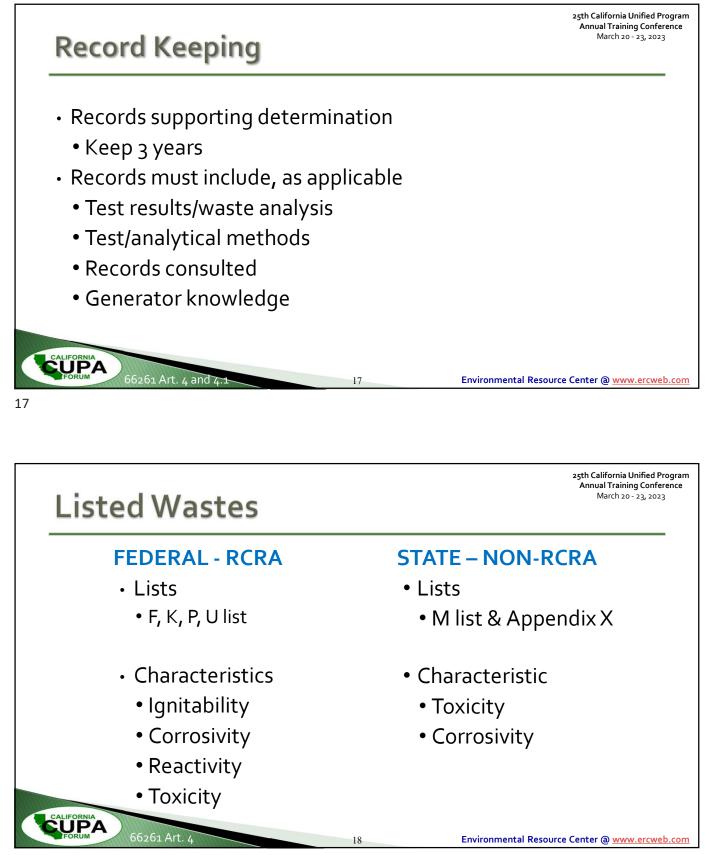
RCRA Memo 11424

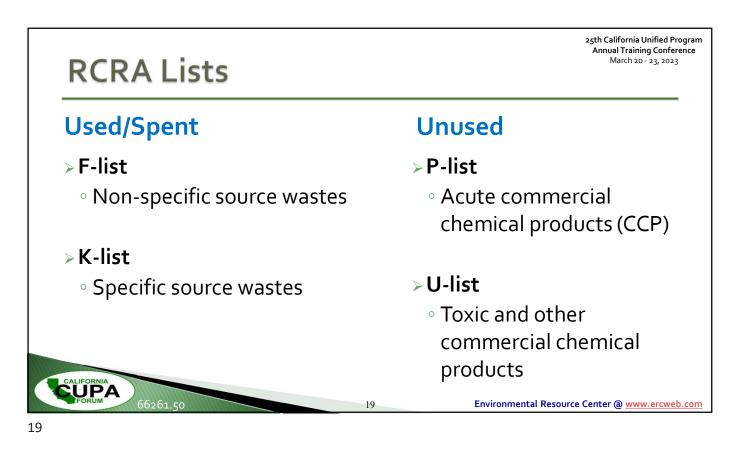
Where a generator does meet the conditions of Section 262.34, the accumulation time begins when a waste is generated or when it is first taken from a "satellite" accumulation area operated pursuant to 40 CFR 262.34(c). Waste is generated either when it is produced or when it is first caused to be subject to regulation (40 CFR 260.10), not when a generator first analyzes the waste. If the waste in the drum was a listed or characteristic hazardous waste when it was produced, then the one-time 90-day accumulation time could begin only at the time the waste was produced or removed from the satellite accumulation area.

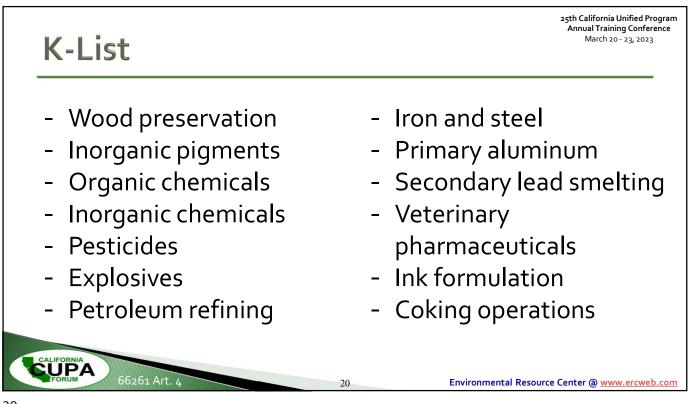
If the waste was not subject to regulation when it was first stores, e.g., the material had not yet been listed as a regulated hazardous waste, then the 90-day period would have begun when the waste became subject to regulation--upon the effective date of the new listing. A generator's failure to properly analyze, label, and accumulate waste does not exempt the waste from regulation.











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K-List

and EPA Hazardous Waste No.	Iazardous Hazardous Waste	
Wood preserv	vation:	
K001	bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol;	(T)
Inorganic pig	iments:	-
K002	wastewater treatment sludge from the production of chrome yellow and orange pigments;	(T)
K003	wastewater treatment sludge from the production of molybdate orange pigments;	(T)
K004	wastewater treatment sludge from the production of zinc yellow pigments;	(T)
K005	wastewater treatment sludge from the production of chrome green pigments;	(T)
K006	wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated);	(T)
K007	wastewater treatment sludge from the production of iron blue pigments;	(T)
K008	oven residue from the production of chrome oxide green pigments;	(T)
Organic chen	nicals:	÷
K009	distillation bottoms from the production of acetaldehyde from ethylene;	(T)

F-list Categories

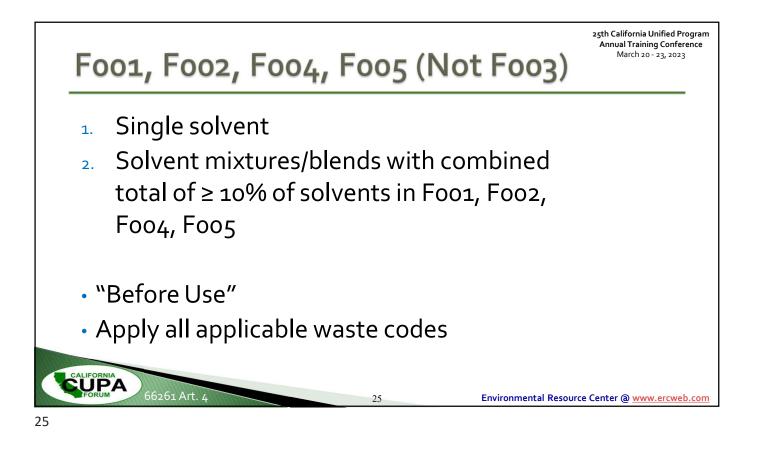
Hazardous V Code	Vaste	Waste Stream	
F001-F005	Spent	solvents	
F006-F009	Electro	oplating	
F010-F012, F01	.9 Metal	heat-treating waste	
F020 – F0233, F026-F028	Dioxir	Dioxin-bearing waste	
F024, F025	Chlori waste	nated aliphatic hydrocarbon production	
F032, F034, F03	35 Wood	preserving waste	
F037, F038	Petrol	eum refinery wastewater treatment sludge	
F 039	Multis	ource leachate	

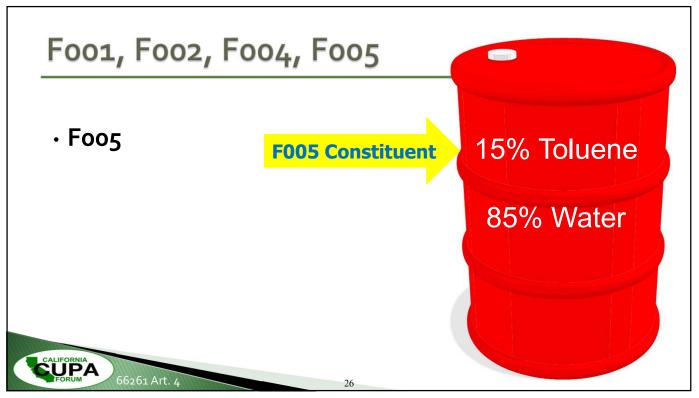
Industry and EPA hazardous waste No.	Hazardous Waste	Hazard code
Generic:		
F001	The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures	(T)
	The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1- trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2-trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures	(T)
	The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, only the above spent non-halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents, and, a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures	(I)*
F004	The following spent non-halogenated solvents: Cresols and cresylic acid, and nitrobenzene; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures	(T)
	The following spent non-halogenated solvents: Toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures	(I,T)

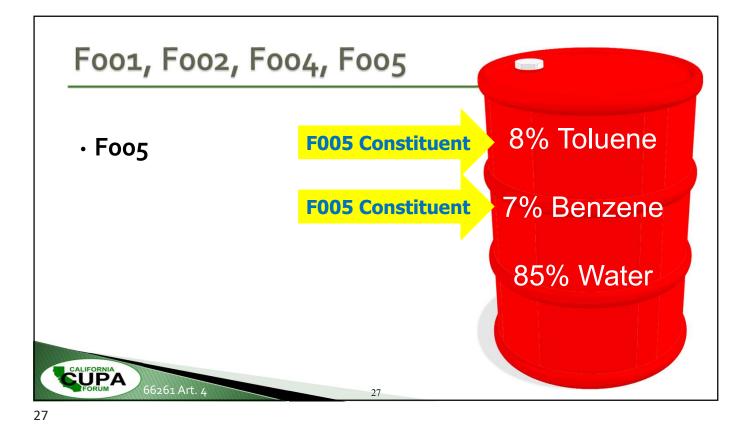
Hazard Codes

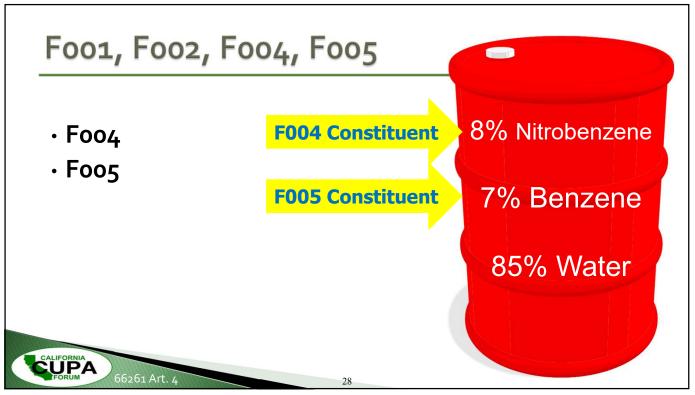
Waste Characteristic	Hazard Code
Ignitability	(I)
Corrosivity	(C)
Reactivity	(R)
Toxicity	(E)
Toxic	(T)
Acutely hazardous	(H)
CALIFORNIA	
G6261 Art. 4	24 Environmental Resource Center @ <u>www.ercweb.c</u>

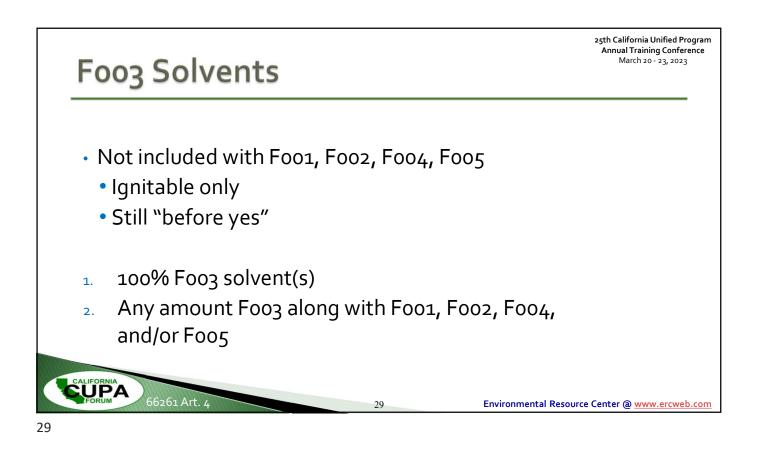
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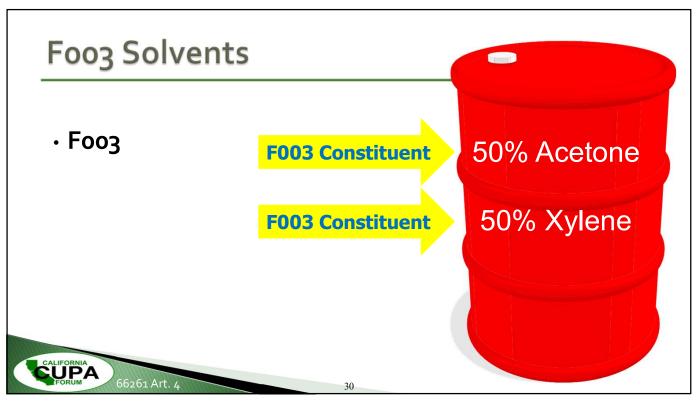


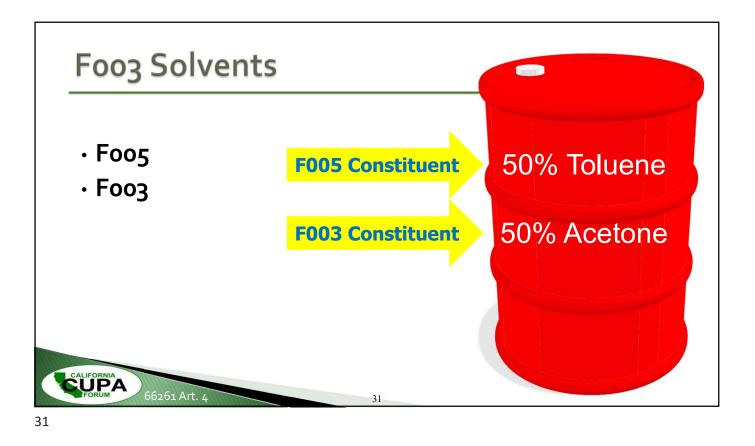


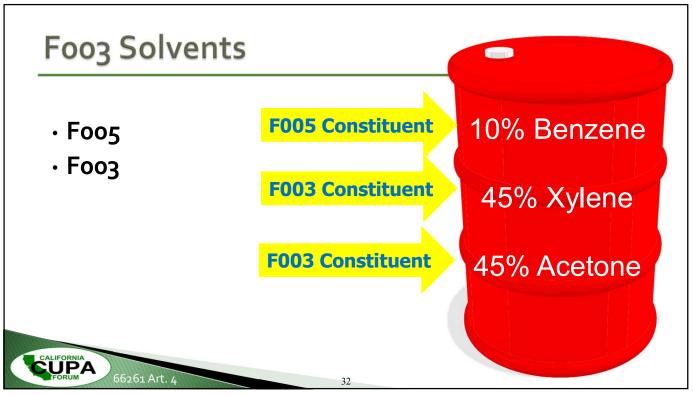


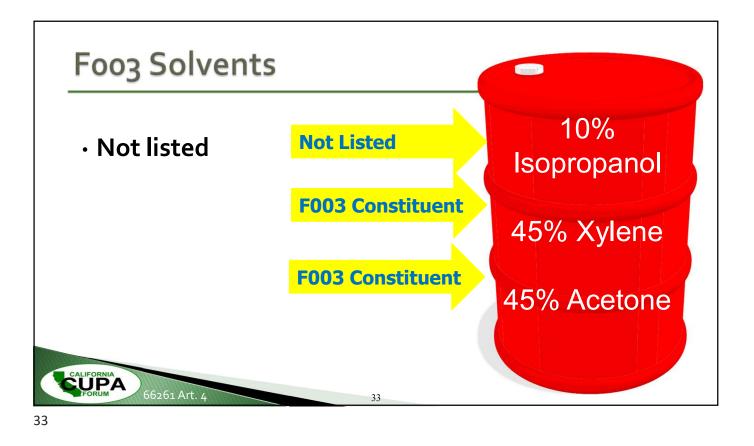












F-list

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• What's the difference between Foo1 and Foo2?

Industry and EPA hazardous waste No.	Hazardous Waste	Hazard code
Generic:		
	The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures	(T)
	The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1- trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2-trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures	(T)

Still bottoms

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· Also includes still bottoms from recovery of these solvents

and EPA hazardous waste No.	Hazardous Waste	Hazard code
Generic:		
F001	The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures	(T)
F002	The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1- trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2-trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures	(T)

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Listed Wastes

• Fo19 (in CA)

wastewater treatment sludges from the chemical

conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process;

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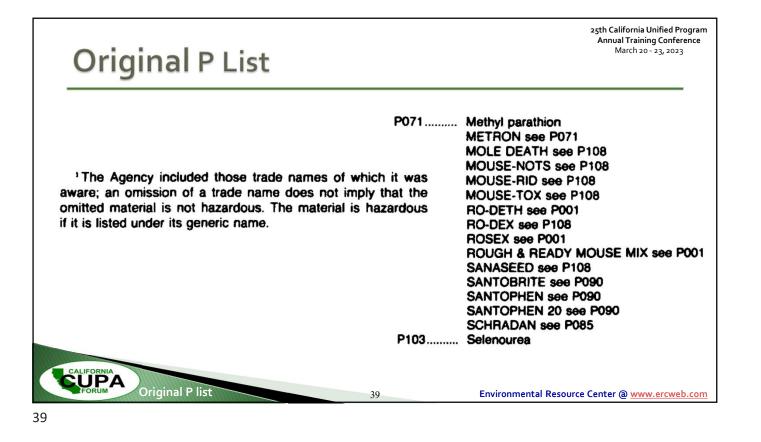
Fo19 (federal)

66261.31

Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process. Wastewater treatment sludges from the manufacturing of motor vehicles using a zinc phosphating process will not be subject to this listing at the point of generation if the wastes are not placed outside on the land prior to shipment to a landfill for disposal and are either: disposed in a Subtitle D municipal or industrial landfill unit that is equipped with a single clay liner and is permitted, licensed or otherwise authorized by the state; or disposed in a landfill unit

UPA





Hazar- dous waste No.	Chemical abstracts No.	Substance			P and U-List
P023	107-20-0	Acetaldehyde, chloro-			
P002	591-08-2	Acetamide, N-(aminothioxomethyl)-	U394	30558-43-1	A2213
P057	640-19-7	Acetamide, 2-fluoro-	U001	75-07-0	Acetaldehyde (I)
P058	62-74-8	Acetic acid, fluoro-, sodium salt	U034	75-87-6	Acetaldehyde, trichloro-
P002	591-08-2	1-Acetyl-2-thiourea	U187	62-44-2	Acetamide, N-(4-ethoxyphenyl)-
			U005	53-96-3	Acetamide, N-9H-fluoren-2-yl-
P003 P070	107-02-8 116-06-3	Acrolein Aldicarb	U240	194-75-7	Acetic acid, (2,4-dichlorophenoxy)-, salts & esters
P203	1646-88-4	Aldicarb sulfone	U112	141-78-6	Acetic acid ethyl ester (I)
P004	309-00-2	Aldrin	U144	301-04-2	Acetic acid, lead(2+) salt
P005	107-18-6	Allyl alcohol	U214	563-68-8	Acetic acid, thallium(1+) salt
P006	20859-73-8	Aluminum phosphide (R,T)	see F027	93-76-5	Acetic acid, (2,4,5-trichlorophenoxy)-
			U002	67-64-1	Acetone (I)

66261 Art

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P-List

- Everything on list is acutely hazardous
 - (H) is assumed
- May have other hazards
 - (T) toxic

CALIFORNIA

- (R) reactive
- Absence of a letter indicates solely acutely hazardous

66261 Art. 4

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Hazar- dous waste No.	Chemical abstracts No.	Substance
P023	107-20-0	Acetaldehyde, chloro-
P002	591-08-2	Acetamide, N-(aminothioxomethyl)-
P057	640-19-7	Acetamide, 2-fluoro-
P058	62-74-8	Acetic acid, fluoro-, sodium salt
P002	591-08-2	1-Acetyl-2-thiourea
P003	107-02-8	Acrolein
P070	116-06-3	Aldicarb
P203	1646-88-4	Aldicarb sulfone
P004	309-00-2	Aldrin
P005	107-18-6	Allyl alcohol
P006	20859-73-8	Aluminum phosphide (R,T)

Environmental Resource Center @ www.ercweb.com

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III: at	HW No.	Chemical abstracts No.	Substance
U-List	U394	30558-43-1	A2213
	U001	75-07-0	Acetaldehyde (I)
 Toxic, unless it's not 	U034	75-87-6	Acetaldehyde, trichloro-
	U187	62-44-2	Acetamide, N-(4-ethoxyphenyl)-
Absence of a letter	U005	53-96-3	Acetamide, N-9H-fluoren-2-yl-
• Absence of a letter indicates solely toxic	U2401	94-75-7	Acetic acid, (2,4-dichlorophenoxy)-, salts & esters
-	U112	141-78-6	Acetic acid ethyl ester (I)
(T) toyic	U144	301-04-2	Acetic acid, lead(2+) salt
• (T) toxic	U214	563-68-8	Acetic acid, thallium(1+) salt
 (R) reactivity (C) corrosivity	see F027	93-76-5	Acetic acid, (2,4,5-trichlorophenoxy)-
	U002	67-64-1	Acetone (I)
• (I) ignitability	U003	75-05-8	Acetonitrile (I,T)
	U004	98-86-2	Acetophenone
CALIFORNIA	U005	53-96-3	2-Acetylaminofluorene
GUPA 66261 Art. 4	U006	75-36-5	Acetyl chloride (C,R,T)

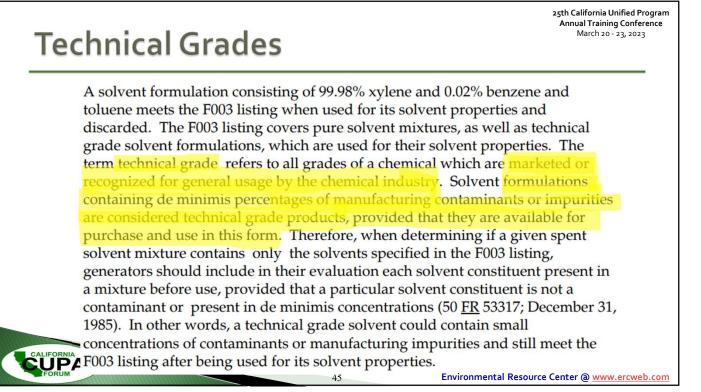


- 1. Pure grade
- 2. Technical grade

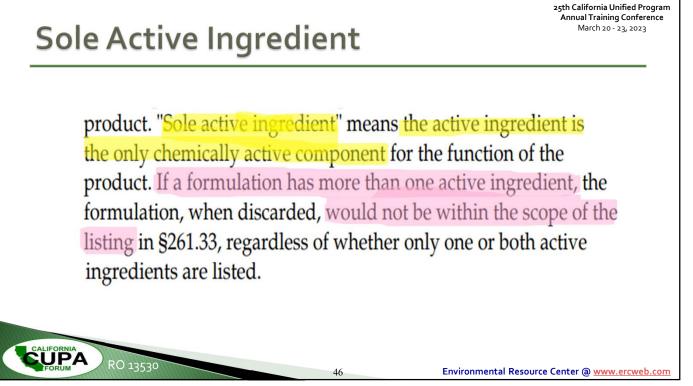
66261 Art. 4

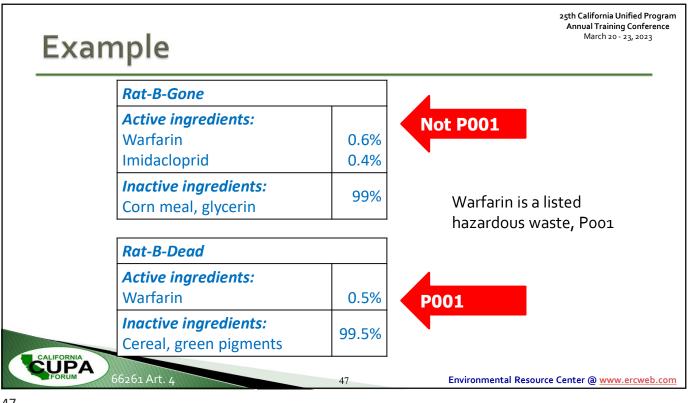
3. Sole active ingredient

[Comment: The phrase "commercial chemical product or manufacturing chemical intermediate having the generic name listed in . . ." refers to a chemical substance which is manufactured or formulated for commercial or manufacturing use which consists of the commercially pure grade of the chemical, any technical grades of the chemical that are produced or marketed, and all formulations in which the chemical is the sole active ingredient. It does not refer to a material, such as a manufacturing process waste, that contains any of the substances listed in paragraph (e) or (f). Where a manufacturing process waste is deemed to be a hazardous waste because it contains a substance listed in paragraph (e) or (f), such waste will be listed in either §261.31 or §261.32 or will be identified as a hazardous waste by the characteristics set forth in subpart C of this part.]

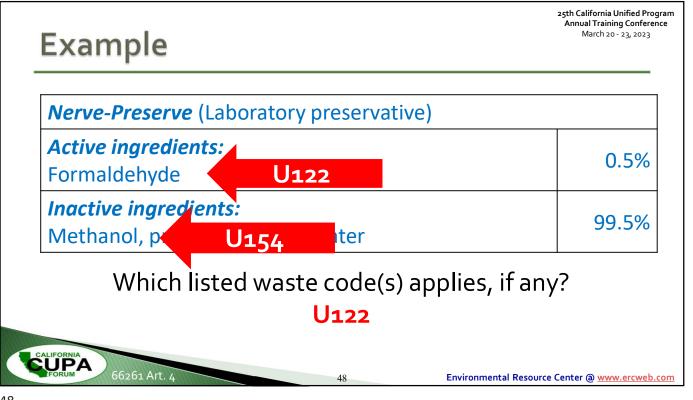












Example	Ingredients Active Ingredients Ingredient - Purpose Phenol 1.4% - Oral Ai Inactive Ingredients:			d water, sodium chloride, sodium citrate, so	25th California Unified Program Annual Training Conference March 20 - 23, 2023 dium saccharin, sucralose
Proc / Set / Set State		U186	504-60-9	1,3-Pentadiene (I)	
SORE		U187	62-44-2	Phenacetin	
		U188	108-95-2	Phenol	
Numbs throat in seconds		U048	95-57-8	Phenol, 2-chloro-	
SAFE FOR THE FAMILY AGES 3+ CHERRY 6 FL 02 (177 mL) SPRAY		U039	59-50-7	Phenol, 4-chloro-3-methyl-	
CALIFORN G6261 Art. 4			49	Environmental Resource	Center @ <u>www.ercweb.com</u>

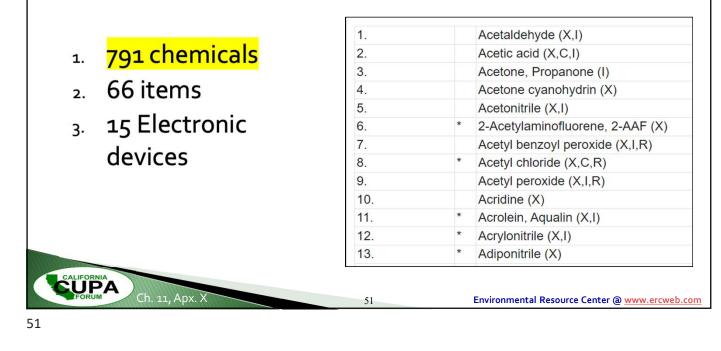
California Lists – M-List

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	Mercury-Containing Products
M001	Mercury-containing vehicle switches
M002	Non-automotive mercury switches and any product that contains switches
M003	Lamps that contain intentionally-added mercury and products with lamps that contain intentionally-added mercury
M004	Mercury-added novelties, includes items painted with mercury-containing paint
CALIFORNIA CEOPERA FORUM 662	61.150 50 Environmental Resource Center @ www.ercweb.com

California Lists – Appendix X

25th California Unified Program Annual Training Conference March 20 - 23, 2023



Appendix X

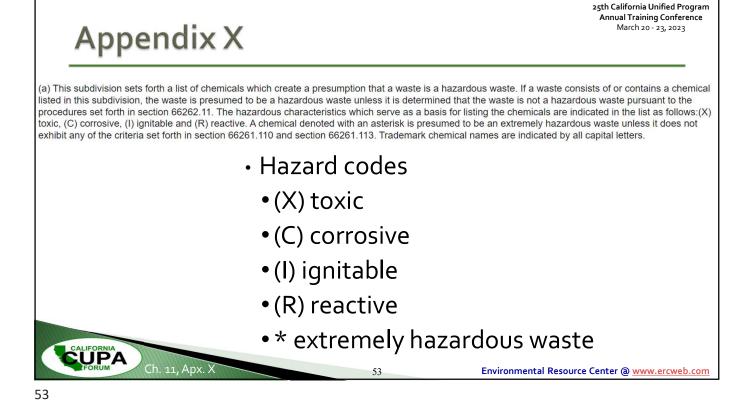
25th California Unified Program Annual Training Conference March 20 - 23, 2023

(a) This subdivision sets forth a list of chemicals which create a presumption that a waste is a hazardous waste. If a waste consists of or contains a chemical listed in this subdivision, the waste is presumed to be a hazardous waste unless it is determined that the waste is not a hazardous waste pursuant to the procedures set forth in section 66262.11. The hazardous characteristics which serve as a basis for listing the chemicals are indicated in the list as follows:(X) toxic, (C) corrosive, (I) ignitable and (R) reactive. A chemical denoted with an asterisk is presumed to be an extremely hazardous waste unless it does not exhibit any of the criteria set forth in section 66261.110 and section 66261.113. Trademark chemical names are indicated by all capital letters.

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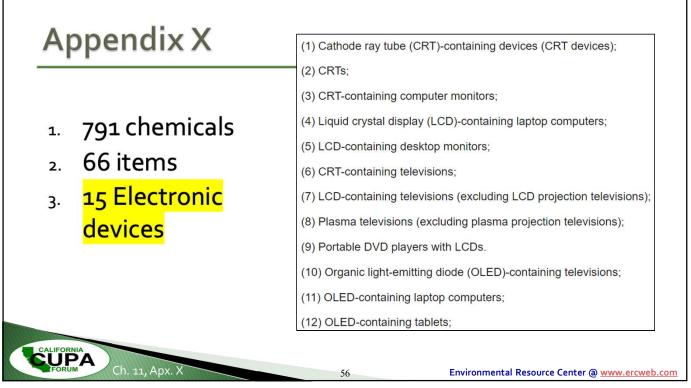
- Creates a presumption that a waste is hazardous waste
- Consists of or contains anything on list
- It is hazardous unless it's not hazardous

Ch. 11, Apx. X



25th California Unified Program Annual Training Conference March 20 - 23, 2023 **Appendix X - Example** Acetaldehyde (X,I) 1. Vinegar milk (mmm yum!) 2. Acetic acid (X,C,I) • 1% acetic acid 3. Acetone, Propanone (I) 4. Acetone cyanohydrin (X) • 99% milk 5. Acetonitrile (X,I) 6. 2-Acetylaminofluorene, 2-AAF (X) 7. Acetyl benzoyl peroxide (X,I,R) 8. Acetyl chloride (X,C,R) 9. Acetyl peroxide (X,I,R) Is it hazardous waste? 10. Acridine (X) Acrolein, Aqualin (X,I) 11. 12. Acrylonitrile (X,I) 13. Adiponitrile (X) Ch. 11, Apx. X Environmental Resource Center @ www.ercweb.com 54

Appendix X	Acetylene sludge (C)	Cleaning solvents (I)
Аррепаіх Л	Acid and water (C)	Corrosion inhibitor (X,C)
	Acid sludge (C)	Data processing fluid (I)
	AFU Floc (X)	
1. 791 chemicals	Alkaline caustic liquids (C)	Drilling fluids (X,C)
2. <mark>66 items</mark>	Alkaline cleaner (C)	Drilling mud (X)
	Alkaline corrosive battery fluid (C)	Dyes (X)
3. 15 Electronic	Alkaline corrosive liquids (C)	Etching acid liquid or solvent (C,I)
devices	Asbestos waste (X)	
	Ashes (X,C)	Fly ash (X,C)
	Bag house wastes (X)	Fuel waste (X,I)
	Battery acid (C)	Insecticides (X)
	Beryllium waste (X)	Laboratory waste (X,C,R,I)
CALIFORNIA CLEARING CH. 11 ANY Y		
Ch. 11, Apx. X	55 Env	vironmental Resource Center @ <u>www.ercweb.com</u>
55		





D-Codes Pre-1990

261.21 (Ignitability)

(b) A solid waste that exhibits the characteristic of ignitability, but is not listed as a hazardous waste in Subpart D, has the EPA Hazardous Waste Number of D001.

261.22 (Corrosivity)

(b) A solid waste that exhibits the characteristic of corrosivity, but is not listed as a hazardous waste in Subpart D, has the EPA Hazardous Waste Number of D002.

261.23 (Reactivity)

(b) A solid waste that exhibits the characteristic of reactivity, but is not listed as a hazardous waste in Subpart D, has the EPA Hazardous Waste Number of D003.

261.24 (Toxicity)

(b) A solid waste that exhibits the characteristic of EP toxicity, but is not listed as a hazardous waste in Subpart D, has the EPA Hazardous Waste Number specified in Table I which corresponds to the toxic contaminant causing it to be hazardous.

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66261 Art. 3

D-Codes Post-1990

261.21 (Ignitability)

(b) A solid waste that exhibits the characteristic of ignitability has the EPA Hazardous Waste Number of D001.

261.22 (Corrosivity)

(b) A solid waste that exhibits the characteristic of corrosivity has the EPA Hazardous Waste Number of D002.

[45 FR 33119, May 19, 1980, as amended at 46
FR 35247, July 7, 1981; 55 FR 22684, June 1, 1990; 58 FR 46049, Aug. 31, 1993; 70 FR 34561, June 14, 2005]

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20101

261.23 (Reactivity)

characteristic of reactivity has the EPA Hazardous Waste Number of D003.

[45 FR 33119, May 19, 1980, as amended at 55

FR 22684, June 1, 1990; 75 FR 13002, Mar. 18,

(b) A solid waste that exhibits the

261.24 (Toxicity) (b) A solid waste that exhibits the characteristic of toxicity has the EPA Hazardous Waste Number specified in Table 1 which corresponds to the toxic contaminant causing it to be hazardous.

TABLE 1—MAXIMUM CONCENTRATION OF CONTAMINANTS FOR THE TOXICITY CHARACTERISTIC

En

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March 20 - 23, 2023



- 1. Liquid with flash point < 140°F
 - 1. Except aqueous alcohol solution, < 24% ABV
- 2. Non liquid, causes fire at STP
 - Friction

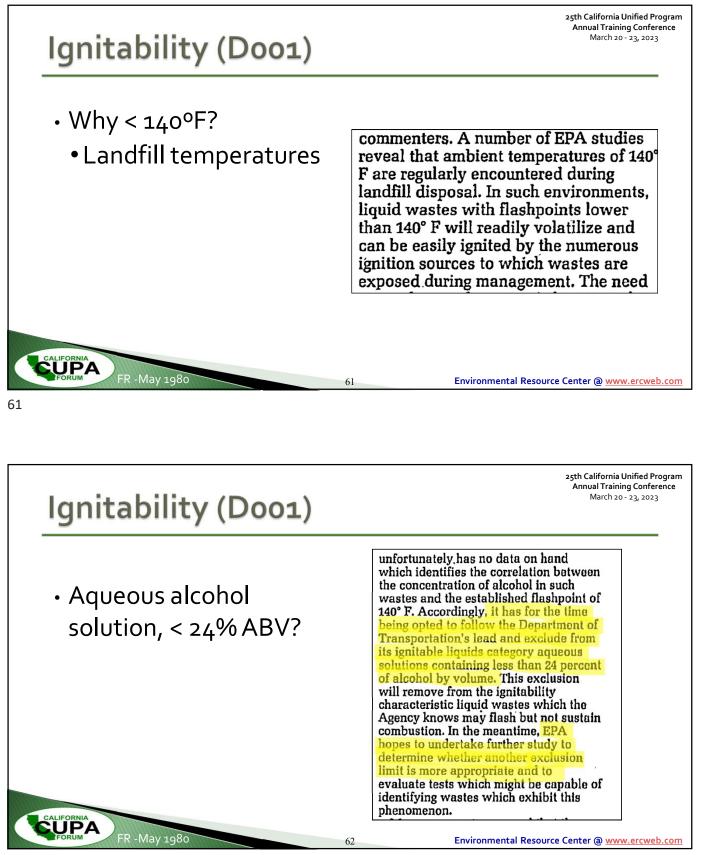
66261.21

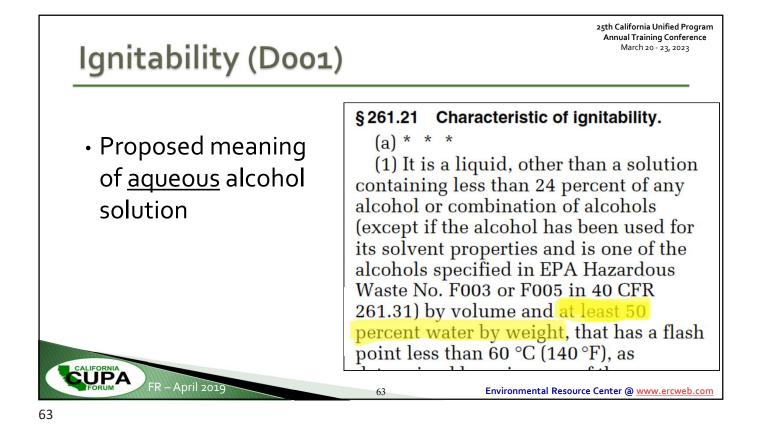
UPA

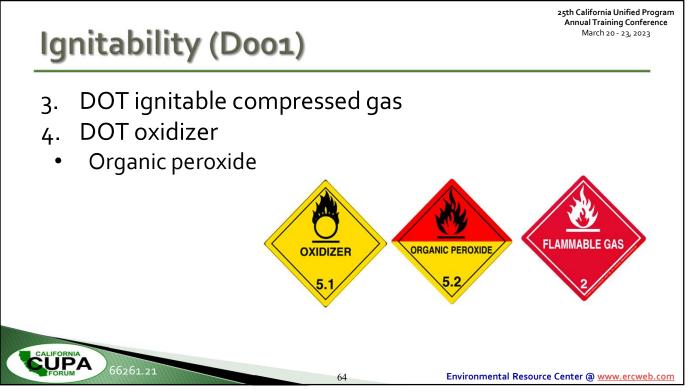
59

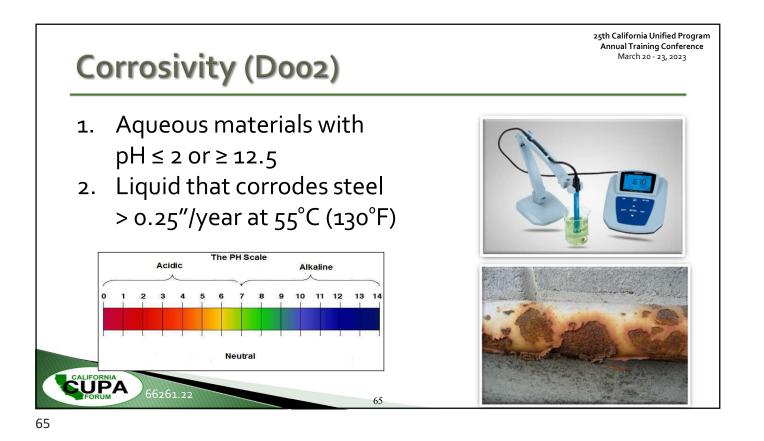
- Absorption of moisture
- Spontaneous chemical change
- Burns vigorously, persistently

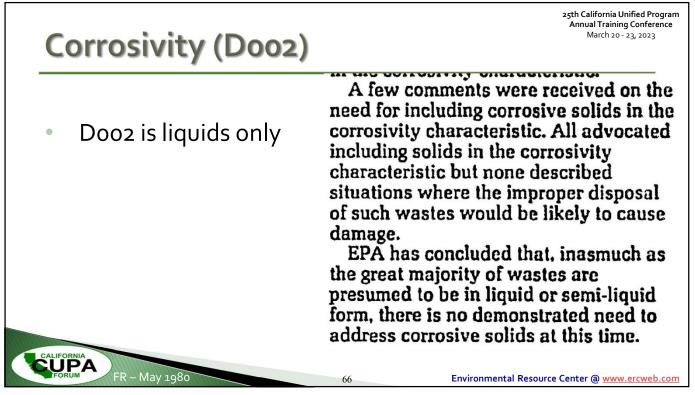
UPA

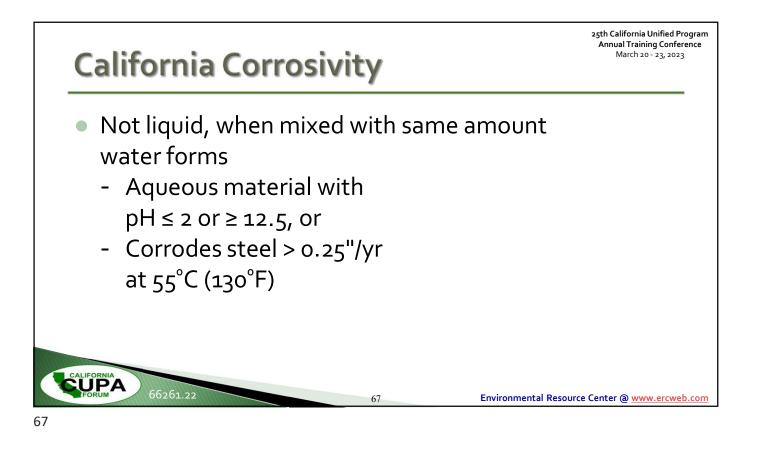


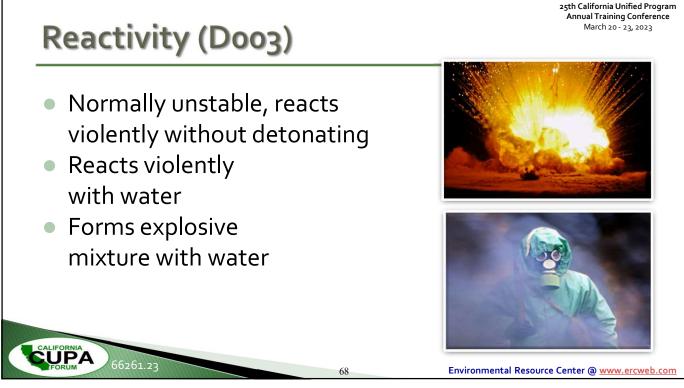


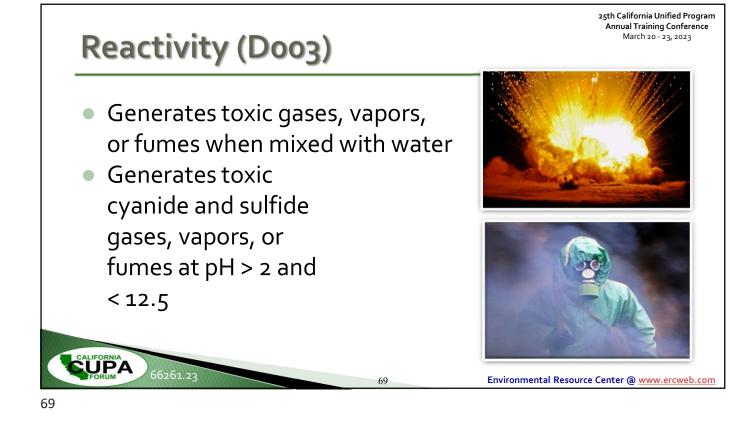














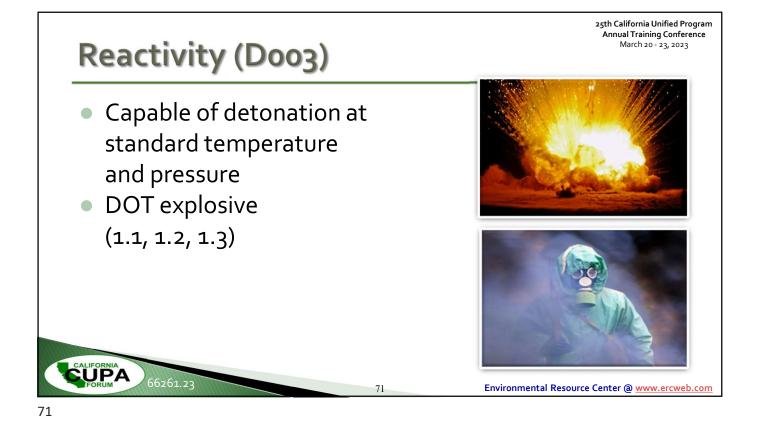
 Capable of detonation if heated under confinement or subjected to strong initiating source



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UPA 66261.23



Doo3 Examples

- Acetyl chloride
- Chromic acid
- Cyanides
- Hypochlorites
- Sulfides

- Perchlorates
- Permanganates

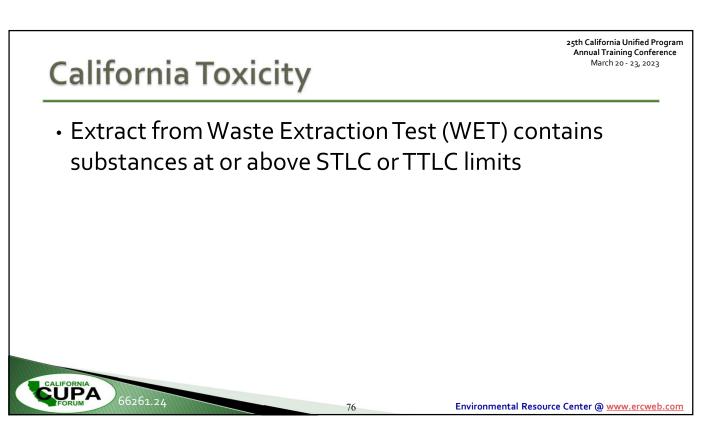
Organic peroxides

The unavailability of suitable test methods for measuring reactivity should not cause problems. Most generators of reactive wastes are aware that their wastes possess this property and require special handling. This in because such wastes are dangerous to the generators' own operations and are rarely generated from unreactive feed stocks. Consequently, the prose definition should provide generators with sufficient guidance to enable them to determine whether their wastes are reactive.





EPA HW <u>Number</u>	<u>Contaminant</u>	Regulatory Level (mg/l)	EPA HW <u>Number</u>		Regulatory Level (mg/l)
D004	Arsenic	5.0	D032	Hexachlorobenzene	0.13
D005	Barium	100.0	D033	Hexachlorobutadiene	0.5
D018	Benzene	0.5	D034	Hexachloroethane	3.0
D006	Cadmium	1.0	D008	Lead	5.0
D019	Carbon Tetrachloride	0.5	D013	Lindane	0.4
D020	Chlordane	0.03	D009	Mercury	0.2
D021	Chlorobenzene	100.0	D014	Methoxychlor	10.0
D022	Chloroform	6.0	D035	Methyl Ethyl Ketone	200.0
D007	Chromium	5.0	D036	Nitrobenzene	2.0
D023	o-Cresol	200.0	D037	Pentachlorophenol	100.0
D024	m-Cresol	200.0	D038	Pyridine	5.0
D025	p-Cresol	200.0	D010	Selenium	1.0
D026	Cresol	200.0	D011	Silver	5.0
D016	2,4-D	10.0	D039	Tetrachlorethylene	0.7
D027	1,4-Dichlorobenzene	7.5	D015	Toxaphene	0.5
D028	1,2-Dichloroethane	0.5	D040	Trichloroethylene	0.5
D029	1,1-Dichloroethylene	0.7	D041	2,4,5-Trichlorophenol	400.0
D030	2,4-Dinitrotolene	0.13	D042	2,4,6-Trichlorophenol	2.0
D012	Endrin	0.02	D017	2,4,5-TP (Silvex)	1.0
D031	Heptachlor (& its hydroxide)	0.008	D043	Vinyl Chloride	0.2
		/5			



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3/21/2023

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Annual Training Conference March 20 - 23, 2023 **Inorganic Constituents** Chromium Nickel • Antimony • Arsenic • Cobalt Selenium • Silver • Asbestos • Copper (friable) Thallium Fluoride salts • • Barium Vanadium Lead • Beryllium • Zinc Mercury Cadmium Molybdenum • 6261.24 Environmental Resource Center @ www.ercweb.com 77 77

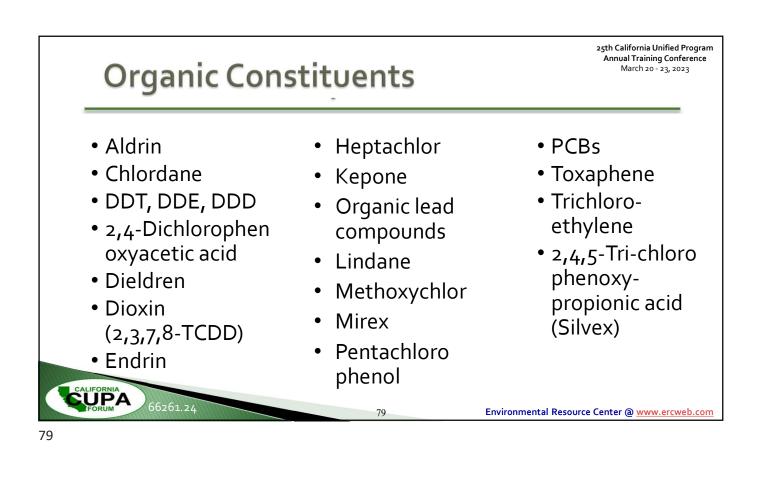
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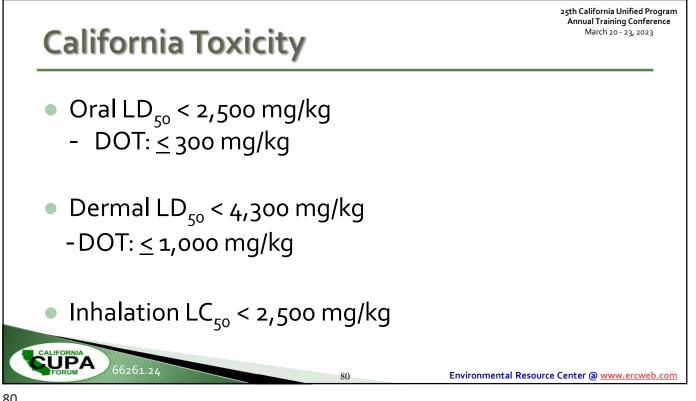
Chromium Fed vs. CA

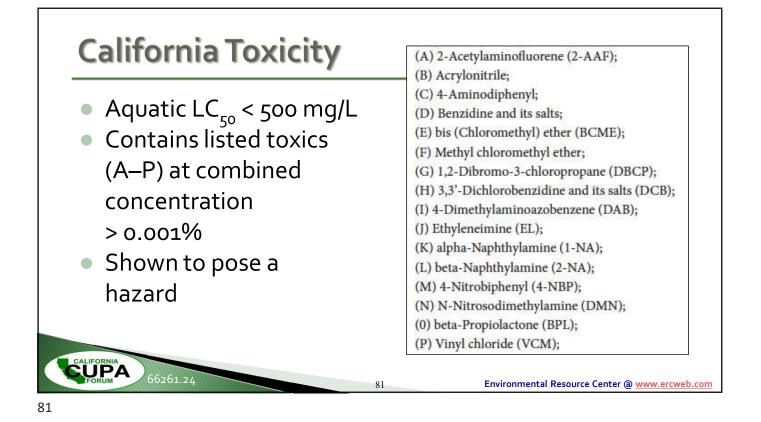
- Federal TCLP Chromium limit is all chromium
- CA Waste Extraction Test has different hex- and trilimits

66261.24

Substance ^{a,b}	STLC mg/l	TTLC Wet weight mg/kg
Barium and/or barium compounds (excluding barite)	100	10,000 _c
Beryllium and/or beryllium compounds	0.75	75
Cadmium and/or cadmium compounds	1.0	100
Chromium (VI) compounds	5	500
Chromium and/or chromium (III) compounds	5 _d	2,500







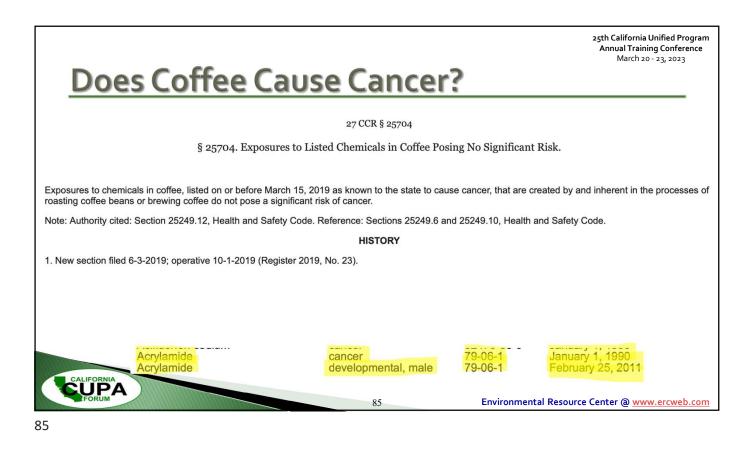
CA-Extremely Hazardous	(A) 2-Acetylaminofluorene (2-AAF);
	(B) Acrylonitrile;
• Oral LD ₅₀ ≤ 50 mg/kg	(C) 4-Aminodiphenyl;
5	(D) Benzidine and its salts;
• Dermal LD ₅₀ ≤ 43 mg/kg	(E) bis (Chloromethyl) ether (BCME);
 Inhalation LC₅₀ ≤ 100 ppm 	(F) Methyl chloromethyl ether;
5	(G) 1,2-Dibromo-3-chloropropane (DBCP);
 Contains listed 	(H) 3,3'-Dichlorobenzidine and its salts (DCB);
chemicals at single	 4-Dimethylaminoazobenzene (DAB);
3	(J) Ethyleneimine (EL);
or combined	(K) alpha-Naphthylamine (1-NA);
concentration of 0.1%	(L) beta-Naphthylamine (2-NA);
concentration of 0.1%	(M) 4-Nitrobiphenyl (4-NBP);
	(N) N-Nitrosodimethylamine (DMN);
	beta-Propiolactone (BPL);

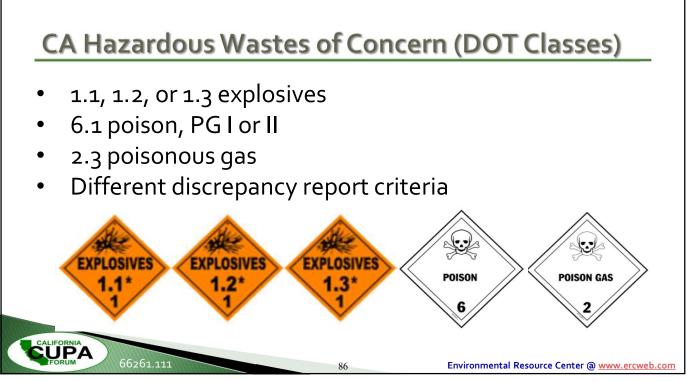
	TTLC Substance	Wet Weight in mg/kg
CA-Extremely Hazardous	Aldrin	140
CA-EXCERNELY Hazardous	Arsenic and/or arsenic compounds	50,000 (as As)
	Beryllium and/or beryllium compounds	7,500 (as Be)
 Even a suma l'hach a la suda da da sub- 	Cadmium and/or cadmium compounds	10,000 (as Cd)
 Exposure likely leads to death, 	Chlordane	250
disabling injury, serious illness,	2,4-Dichlorophenoxyacetic acid	10,000 800
	Dieldrin	
cancer (Prop 65?)	Dioxin (2,3,7,8-TCDD)	1
	Endrin	20
	Heptachlor	470
	Kepone	2,100
 Water reactive 	Lead compounds, organic	1,300 (dry weight basis; as Pb)
	Lindane	400
	Mercury and/or mercury compounds	2,000 (as Hg)
Chemicals listed at 66261.113	Mirex	2,100
≥TTLC	Polychlorinated biphenyls (PCBs)	5,000
2 TTEC	Selenium and/or selenium compounds*	10,000 (as Se)
	Thallium and/or thallium compounds*	70,000 (as Tl)
CALIFORNIA	Toxaphene	500
CUPA	2,4,5-Trichlorophenoxypropionic acid	1,000
66261.110 83	2	

Proposition 65	Pro	pos	ition	65
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Chemical	Type of Toxicity	CAS No.	Date Listed
A-alpha-C (2-Amino-9H-pyrido [2,3- b]indole)	Cancer	26148-68-5	January 1, 1990
Abiraterone acetate	developmental, female, male	154229-18-2	April 8, 2016
Acetaldehvde	cancer	75-07-0	April 1, 1988
Acetamide	cancer	60-35-5	January 1, 1990
Acetazolamide	developmental	59-66-5	August 20, 1999
Acetochlor	cancer	34256-82-1	January 1, 1989
Acetohydroxamic acid	developmental	546-88-3	April 1, 1990
2-Acetylaminofluorene	cancer	53-96-3	July 1, 1987
Acifluorfen sodium	cancer	62476-59-9	January 1, 1990
Acrylamide	cancer	79-06-1	January 1, 1990
Acrylamide	developmental, male	79-06-1	February 25, 2011
Acrylonitrile	cancer	107-13-1	July 1, 1987
Actinomycin D	cancer	50-76-0	October 1, 1989
Actinomycin D	developmental	50-76-0	October 1, 1992
AF-2;[2-(2-furyl)-3-(5-nitro-2-furyl)] acrylamide	cancer	3688-53-7	July 1, 1987
Aflatoxins	cancer		January 1, 1988
Alachlor	cancer	15972-60-8	January 1, 1989
CALIFOR Alcoholic beverages	cancer		April 29, 2011
Alcoholic beverages, when associated with alcohol abuse	cancer		July 1, 1988

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Excluded from Hazardous Waste Definition

- Animal carcasses
- Federal exclusions that are not characteristic
- Waste in manufacturing process units
- Samples

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• Treatability studies

66261.4(b)

Wastewater de minimis exclusions (66261.3)

Listed Hazardous Waste Mixture Rule

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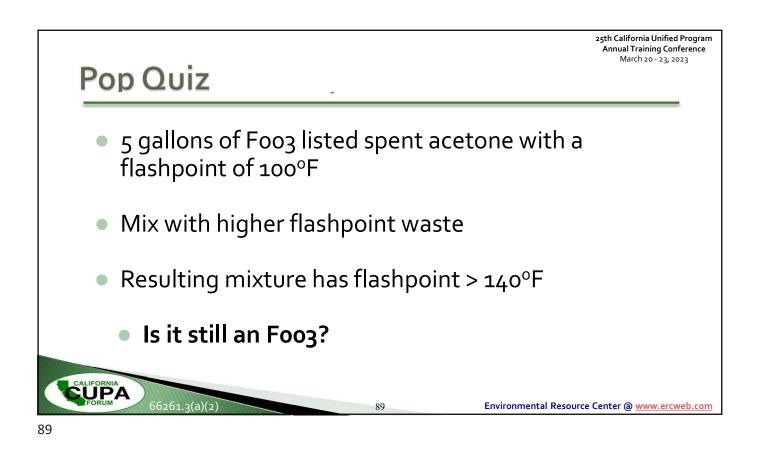
Listed hazardous waste + "Waste" = Listed hazardous waste

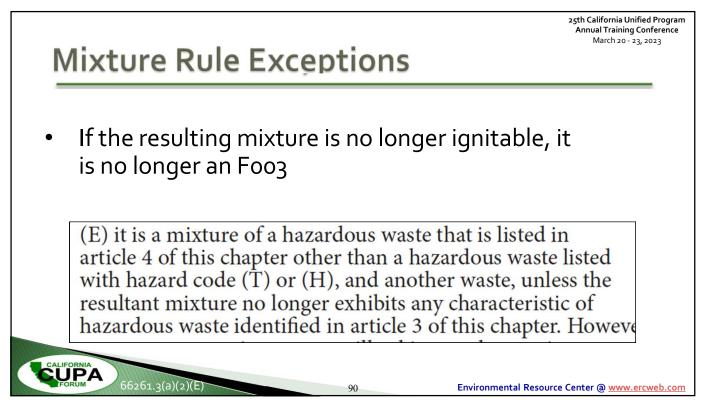
Unless...

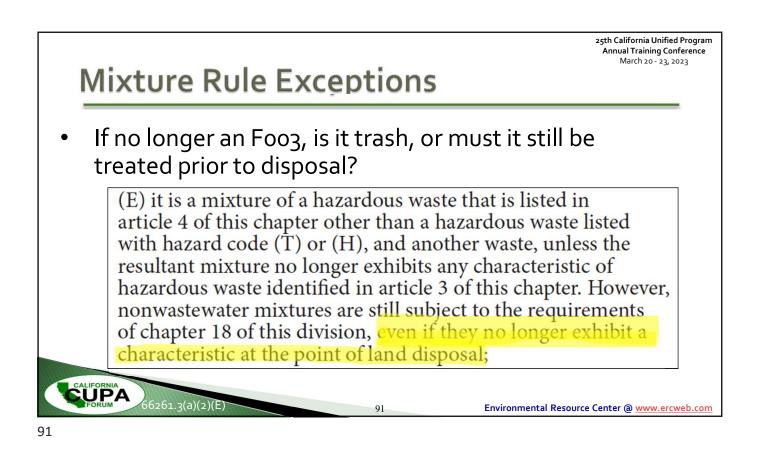
Lots of exceptions, even in CA!

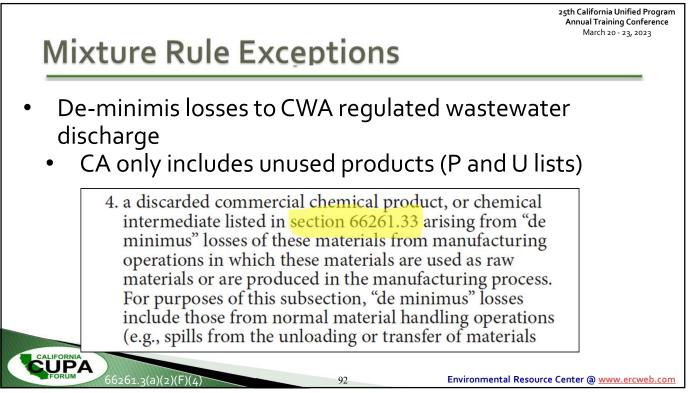


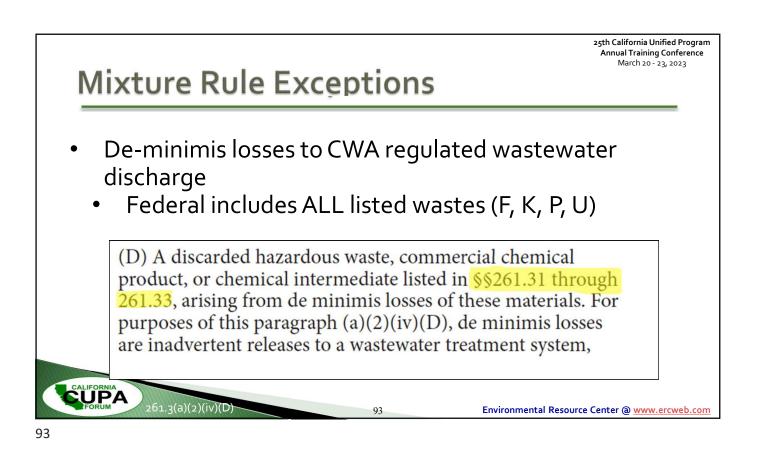
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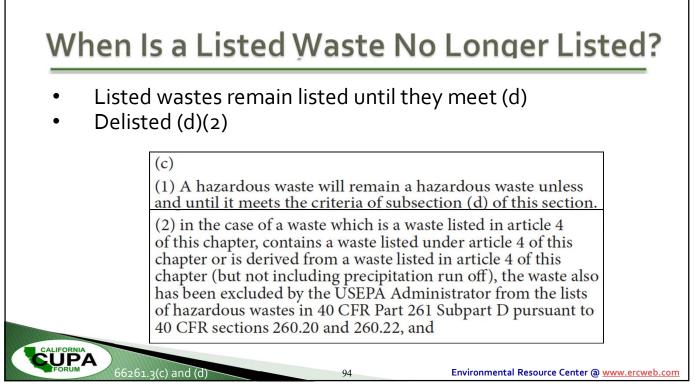














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