







7		Course	Ov	erview
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	2.	Hazardous Waste Characterization	12.	Medical Waste
	3.	Empty Containers	13.	Spill Prevention
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	5.	Hazardous Waste Management/Activities	15.	New Hazardous Waste Regulations/Legislation
	6. 7.	Treated Waste Wood	16.	Hazardous Materials Management – Storage and Compatibility
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# **Training** programs (Required & Advisory)

- Training Matrix (Who & When)
- Including Contractors

#### **Updates:**

 Identify & cascade developments into tools

Hotline: Anonymous tips

#### Management of Change:

Transitioning staff & contractors & organizations to re-direct resources, business process, budgets

#### Enterprise Information Management System

# Strategy for Dealing with Regulators

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Regulation Topic	Regulatory Citation (Federal/State/ Local/City)	Regulatory Requirement	Threshold Requiremen (i.e., threshold limits/ quantities/volumes)
EPA Identification Number	Cal H&SC 25205.16	Facility should verify that information provided DTSC and EPA w/ regard to hazardous waste generating activity is accurate and current. Provide waste codes associated with the four largest hazardous waste streams. This fee will be due 30 days after the applicable DTSC notice is received.	>1000 kg/mo of hazardous waste, or >: kg/mo of acutely hazardous waste
Hazardous Waste Tanks	22 CCR 66265.191- 194	For each existing hazardous waste tank system, the facility will meet tank integrity standards, tank and system component design and construction standards, containment and release detection requirements, and operating, overfill and spill prevention requirements.	Applies to all hazardous waste tanks
SPCC Plan	40VFR Part 112	Spill Prevention Control & Countermeasure Plan: Facilities with greater than 1,320 gallons of combined oil capacity are required to complete an SPCC Plan. Oil includes diesel fuel, gasoline, motor oil, transformer oil, hydraulic elevator oil, vegetable oil, used oil, and cooking grease.	> 1,320 gallons of oil capacity

Applicability Analysis							
Regulatory Agency	Regulation Topic	Regulatory Citation (Federal, State, Local, City)	Regulatory Requirement	Threshold Requirement (i.e., threshold limits, quantities, volumes)	Requirement Type	Frequency	
ISC, CUPA	EPA Identification Number	22 CCR 66261.12	Facilities must get a USEPA or state ID number, based on the type of hazardous waste generated. Because the facility generates both RCRA and non-RCRA waste, it has a USEPA ID number (rappond) Total	Applies to all hazardous waste generators	Permit/ License/ Approval	One Time	
ISC, CUPA	EPA Identification Number	Cal H&SC 25205.16	Testing should verify that information provided DTSC and EPA w/ regard to hazardous waste generating activity is accurate and current. Provide waste codes associated with the four largest hazardous waste streams. This fee will be due 30 days after the applicable DTSC notice is received.	>1000 kg/mo. of hazardous waste, or >1 kg/mo. of acutely hazardous waste	Report/ Notification/ Posting	Yearly	
SC, CUPA	Accumulation Time Limits for Hazardous Waste	22 CCR 262.34; H&SC 25123.3	Hazardous waste may be accumulated onsite in containers, tanks, drip pads, or containment buildings only in compliance with applicable time limits (90 days, in general – exceptions may be 180 days - 270 days, or 365 days)	>1000 kg/mo. of hazardous waste, or >1 kg/mo. of acutely hazardous waste	Engineering Controls/ Administrative Controls	As needed	
SC, CUPA	Satellite Hazardous Waste Accumulation	22 CCR 66262.34 (e) (1)	A generator may accumulate as much as 55 againson fazarotosis waste, or one quant of acutely or extremely hazardous waste in containers at or mean any point of generation. Waste may accumulate for up to one year, as long as under the control of the operation of the process generating the waste. Once 55 gallons have accumulated, the waste mush be moved to the hazardous waste storage area within three	>1000 kg/mo. of hazardous waste, or >1 kg/mo. of acutely hazardous waste	Engineering Controls/ Administrative Controls	As needed	
SC, CUPA	Hazardous Waste Containers	22 CCR 66265.176,66265.177	Containers holding ignitable or reactive wastes shall be placed at least 15 m (50 ft) from facility property line. The plant will not place incompatible waste streams into the same container, and will separate wastes from nearby incompatible materials by dike, berm, wall, etc	Applies to all hazardous waste generators	Engineering Controls/ Administrative Controls	As needed	
SC, CUPA	Maintain Hazardous Waste Containers	22 CCR 66265.171 - 174, 66262.34	The facility shall maintain waste containers so that they are (a) in good condition, (b) compatible w/ contents; (c) (losed, except when adding or removing has waste; (d) managed to avoid rupture or leaks; (e) inspected weekly; and (f) properly labeled.	Applies to all hazardous waste generators	Maintenance/ Calibration, Inspection, Engineering Controls/ Administrative Controls	As needed	

# Hazardous Waste: Regulatory Overview

## Why do these regulations exist?

Early Superfund sites were primarily hazardous waste management facilities.

Valley of the Drums

Love CanalValley of the Drums

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# EPA Hazardous Waste Characteristics

Reactivity

Toxicity

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Ignitability

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Corrosivity









# Examples of Characteristic Wastes

#### D001 - Ignitables:

- Alcohols used in lab
- Strong oxidizing cleaners in industrial settings

#### D002 - Corrosives:

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- Acids used for sample preservation
- ➢ Sodium hypochlorite (pH ≥12.5)



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# **Examples of Characteristic Wastes**

#### D003 - Reactive:

- Aerosol Cans (still containing) propellant)
- Lithium Batteries
- Elemental Phosphorous

#### D009 - Toxic for Mercury:

- Fluorescent Bulbs
- Mercury Thermostats

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Flam	mable Liq	uid Classi	ification	
<b>Regulatory</b> (	Classification			
EPA <sup>a</sup>	OSHA <sup>b</sup>		DOT <sup>c</sup>	Flash Point
D001 Ignitable Hazardous Waste	Class IA Flammable Liquid: Flash Pt ≤73°F Boiling Point < 100°F	Class IB Flammable Liquid: Flash Pt ≤73°F Boiling Point ≥100°F	<b>Packaging Group II</b> Flash Point < 73°F	Less than 73°F (23°C)
Flash Pt < 140°F	h Pt < 140°F Class IC Flammable Liquid: Flash Pt >73°F and < 100°F		$\begin{array}{l} \textbf{Packaging Group III} \\ Flash Point \geq 73^{\circ}F \text{ and } \leq \\ 141^{\circ}F \end{array}$	73°F to 100°F (23°C to 37.8°C)
	<b>Class II Combustible Lic</b> Flash Point ≥ 100°F and <	<b>quids</b> 140°F		100°F to 140°F (37.8°C to 60°C)
	Class IIIA Combustible I Flash Point $\geq$ 140°F and $<$	Liquids 200°F		140°F to 200°F (60.°C to 93.3°C)
Nonhazardous Waste Flash Point≥ 140°F			<b>Combustible Liquids for</b> <b>Bulk Packaging Only</b> <sup>d</sup> Flash Point > 141°F and < 200°F	141°F to 200°F (60.5°C to 93.3°C)
	<b>Class IIIB Combustible</b> I Flash Point ≥ 200°F	Liquids	Not Regulated by DOT: Liquids with Flash Point ≥ 200°F	Greater than 200°F (93.3°C)
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	ganic Parameters/met	tals (Meth	ods: EPA 60	10B, 7000 Sei	ries)	Chlorophenoxy Acid He	erbicides (Me	thod: EPA I	1151A)
		TCLP	STLC	TTLC"			TCLP	STLC	TTLC*
Para	meters	mg/i	mg/l	mg/kg		Compound	mg/l	mg/l	mg/kg
Anti	mony		15	500		2,4-Dichlorophenoxyacetic acid	10.0	10	100
Arse	enic	5.0	5.0	500		2,4,5-TP (Savex)	1.0	1.0	10
Bari	um	100	100	10,000		Organochlorine Pesticio	tes / PCBs (N	ethod: EPA	8081A)
Bery	Vilum	1.0	1.0	100		Alann	0.03	0.14	1.4
Chri	mum	5	5 (560)	2 500		DDT/DDF/DDD	0.03	0.25	10
Coh	unit	č.	80	8,000		Dieldrin		0.8	80
Cop	per		25	2,500		Endrin	0.02	0.02	0.2
Lea	d	5.0	5.0	1,000		Heptachlor (& its Epoxide)	0.008	0.47	4.7
Men	cury	0.2	0.2	20		Kepone		2.1	21
Moh	ybdenum		350	3,500		Lindane	0.4	0.4	4.0
Nick	cel		20	2,000		Methoxychlor	10.0	10	100
Sele	enium	1.0	1.0	100		Mirex		2.1	21
Silvi	er	5	5	500		Toxaphene	0.5	0.5	5.0
Tha	llium		7.0	700					
Zing	adium		24	2,400		o Crosol	200.0	A 02/0C)	
Chr	omium (VI)		5	500		m-Cresol	200.0		
Flue	oride Salts		180	18,000		p-Cresol	200.0		
Asb	estos			1%		Cresols (Total)	200.0		
	Volatiles (	Method: E	PA 8260B)			2.4-Dinitrotoluene	0.13		
Ben	zene	0.5				Hexachlorobenzene	0.13		
Cart	bon tetrachloride	0.5				Hexachlorobutadiene	0.5		
Chk	probenzene	100.0				Hexachloroethane	3.0		
Chic	motoro	6.0				Nitrobenzene	2.0		
1,4-	Dichlorobenzene	7.5				Pentachlorophenol	100.0	1.7	17
1,2-	Dichloroethane	0.5				Pyndine	5.0		
1,1-	bid ofbid kotopo (MEK)	200.0				2,4,5-Trichlorophenol	400.0		
Tatr	achloroethylene (PCE)	0.7				Miscellaneous (Methods:	FPA 8280* (	ADHS.I LIF	(7420**)
Trici	hloroethylene (TCE)	0.5	204	2.040		Dioxin (2.3.7.8-TCDD)*	LI A OLOU , I	0.001	0.01
Vin	d chloride	0.2				Organic Lead Compounds**		1000000	13
* Va	dues expressed as wet	weight	* Exclud	ing barium sul	fate.	See Sec 22-66261.27.(a).(7) for Ad	ditional Toxic	ty Compoun	d/Criteria.
-						Tibe (26) 22 Toxicity Criteria Secon	n 22-00201.2	,	
		Matrix	Method		Criteria				
	Innitability	Matrix	Method		Criteria Exhibits the	characteristic of ionitability if it is a liquid, and	( has a flash noi	nt <60°C (140	E) Anienis
	Ignitability	Matrix Liquid	Method ASTM D-9	3	Criteria Exhibits the solutions con	characteristic of ignitability: if it is a liquid, and taining >24% alcohol by volume are consider	f has a flash poi red ignitable and	nt <50°C (140' do not require	F). Aqueous flash point testing
S	Ignitability (40 CFR 261.21)	Matrix Liquid	Method ASTM D-9	3	Criteria Exhibits the solutions con	characteristic of ignitability: If it is a liquid, and taining >24% alcohol by volume are consider dependentiate of instability. If it is not a limit in the set of the set o	d has a flash poi red ignitable and	nt <60°C (140' do not require	F). Aqueous I flash point testing
TICS	lgnitability (40 CFR 261.21) (T22: 22-66261.21)	Matrix Liquid Solid	Method ASTM D-9	3	Criteria Exhibits the solutions cor Exhibits the pressure, of	characteristic of ignitability: if it is a liquid, and taining >24% alcohol by volume are consider characteristic of ignitability: if it is not a liquid causing fire through friction, absorption of mo	I has a flash poi red ignitable and and is capable, sisture or sponta	nt <50°C (140° I do not require under standare neous chemic	F). Aqueous flash point testing temperature and al changes and,
RISTICS	lgnitability (40 CFR 261.21) (T22: 22-66261.21)	Matrix Liquid Solid	Method ASTM D-9	3	Criteria Exhibits the solutions con Exhibits the pressure, of when ignited	characteristic of ignitability: if it is a liquid, and talning >24% alcohol by volume are consider characteristic of ignitability: if it is not a liquid cousing fre through friction, absorption of mo , burns so vigorously and persistently that it c	d has a flash poi red ignitable and and is capable, pisture or sponta reates a hazard	nt <60°C (140' do not require under standare neous chemic	F). Aqueous flash point testing f temperature and al changes and,
reristics	Ignitability (40 CFR 261.21) (722: 22-66261.21) Corrosivity	Matrix Liquid Solid	Method ASTM D-9 EPA 9040	3	Criteria Exhibits the solutions con Exhibits the pressure, of when ignited Exhibits the	characteristic of ignitability: if it is a liquid, and taining >24% alcohol by volume are consider characteristic of ignitability: if it is not a liquid causing fre through friction, absorption of mo journs so vigorously and persistently that it or characteristic of corosivity if it is aqueous an characteristic of corosivity if it is aqueous an	d has a flash poi red ignitable and and is capable, isture or sponta reates a hazard d has a pH ≤ 2 c	nt <60°C (140° do not require under standare neous chemic x ≥12.5 (Sec	F). Aqueous flash point testing temperature and al changes and, 260.20 end 260.21;
CTERISTICS	Ignitability (40 CFR 261.21) (T22: 22-66261.21) Corrosivity (40 CFR 261.22)	Matrix Liquid Solid Liquid	Method ASTM D-9 EPA 9040 EPA 1110	3 NACE	Criteria Exhibits the solutions cor Exhibits the pressure, of when ignited Exhibits the if it corrodes	characteristic of ignitability: If it is a liquid, and talaning >24% alcohol by volume are consider characteristic of ignitability. If it is not a liquid causing fre through friction, absorption of mo , burns so vigorously and persistently that it o characteristic of corroshivity if it is aqueous an sharacteristic of corroshivity if it is aqueous an etale (ISAE: 1003) at rate >6.35 am of 0.250.	f has a flash poi red ignitable and and is capable, isture or sponta reates a hazard d has a pH ≤ 2 o in. per year at a	nt <60°C (140° do not require under standar neous chemic r ≥12.5 (Sec test temperati	F). Aqueous flash point testing I temperature and al changes and, 260.20 and 260.21, ire of 55°C (130°F)
RACTERISTICS	Ignitability (40 CFR 261.21) (T22: 22-66261.21) Corrosivity (40 CFR 261.22) (T22: 22-66261.22)	Matrix Liquid Solid	Method ASTM D-9 EPA 9040 EPA 1110	3 NACE	Criteria Exhibits the solutions con Exhibits the pressure, of when ignited Exhibits the if it corrodes If it is not aqu	characteristic of ignitability: if it is a liquid, and taining ~24% alcohol by volume are consider characteristic of ignitability, if it is not a liquid causing free through fiction, absorption of mo- toms so vigoroval and persistently that it c characteristics of corronivity if it is aqueous an steel (SAE 1020) at table 6.3 Sm or 0.234 accus and, when mixed with an equivalent we	d has a flash poi red ignitable and and is capable, sisture or sponta reates a hazard d has a pH ≤ 2 d in. per year at a sight of water, p	nt <60°C (140' do not require under standar neous chemic r ≈12.5 (Sec test temperati oduces a solu	F). Aqueous flash point testing Hemperature and al changes and, 260.20 and 260.21 ire of 55°C (130°F) tion having a pH s
HARACTERISTICS	Ignitability (40 CFR 261.21) (T22: 22-66261.21) Corrosivity (40 CFR 261.22) (T22: 22-66261.22) Dearthicity	Matrix Liquid Solid Liquid Solid	Method ASTM D-9 EPA 9040 EPA 1110 EPA 9045	3 NACE	Criteria Exhibits the solutions cor Exhibits the pressure, of when ignited Exhibits the if it corrodes If it is not ap 2 or 212.5 Exhibits the	characteristic of ignitability: If II is a liquid, and taining >24% sloohol by volume are consider characteristics of ignitability. If II is not a liquid, source for through fiction, absorption of mo- burns or vigorously and persistenity that II is automateristics of convolving II II is approval an steel (SAE 1020) at rate -6.35 mm or 0.250 vecus and , when moved with an equivalent te shoursetteristic of conclubility.	d has a flash poi red ignitable and and is capable, isture or sponta reates a hazard d has a pH ≤ 2 d in. per year at a sight of water, p or of the followin	nt <60°C (140' do not require under standar neous chemic r ≥12.5 (Sec test temperate oduces a solu	F). Aqueous flash point testing I temperature and al changes and, 260.20 and 260.21 re of 55°C (130°F) tion having a pH s
CHARACTERISTICS	Ignitability (40 CFR 261.21) (T22: 22-66261.21) Corrosivity (40 CFR 261.22) (T22: 22-66261.22) Reactivity (40 CFR 261.22)	Matrix Liquid Solid Liquid Solid	Method ASTM D-9 EPA 9040 EPA 1110 EPA 9045 SW846, C	3 NACE hapter 7	Criteria Exhibits the solutions cor Exhibits the pressure, of when ignited Exhibits the if it corrodes if it is not ap 2 or 212 5 Exhibits the 1. It is norm	characteristic of ignitability: if it is a liquid, and takining 24% silochof by volume are consider humaneteristic of gravitability. if it is not a liquid oxaving free through fieldion, allowards with the humaneteristic of corruphity fit it is approvant steel (SAE 1020) at take 3-635 mm of 0.2501 social and, when mixed with an equivalent we characteristic of exectivity. If the wattle has a undard under durid under social volumeter	I has a flash poi red ignitable and and is capable, isture or sporta reates a hazard of has a pH s 2 in. per year at a sight of water, p vy of the followin ange without de	nt <60°C (140' do not require under standar neous chemic r ≥12.5 (Sec test temperate oduces a solu g properties: tonating.	F). Aqueous flash point testing flemperature and al changes and, 260.20 and 260.21 re of 55°C (130°F) tion having a pH s
TE CHARACTERISTICS	Ignitability (40 CFR 261.21) (T22: 22-66261.21) Corrosivity (40 CFR 261.22) (T22: 22-66261.22) Reactivity (40 CFR 261.22)	Matrix Liquid Solid Liquid Solid	Method ASTM D-9 EPA 9040 EPA 1110 EPA 9045 SW646, C	3 NACE	Criteria Exhibits the solutions con Exhibits the pressure, of when ignited Exhibits the If it corrodes If it is not aq 2 or ≥12.5 Exhibits the 1. It is norm 2. It reacts v	characteristic of ignitability: if it is a figuid, and tabing 242% alcohol by volume are consider characteristics of ignitability. if it is not a liquid coursing the through function, absorption of mul- burns to vigronally and persistently that it is characteristics of concoursity if it is approval. and the state is a state in the state in the state is steel (SAE (1020) at rate in 5.3 km or of 2.50) autous and, when mixed with an equivalent set should be and readily undergees visient ch oliverly with water.	I has a flash poi red ignitable and and is capable, isture or sponta reates a hazard of has a pH 5 2 of in, per year at a hight of water, p rey of the followin range without de	nt <60°C (140' do not require under standarmeous chemic recus chemic r ≥12.5 (Sec test femperation oduces a solu g properties: tonating.	F). Aqueous flash point testing Flemperature and al changes and, 260.20 and 260.21 are of 55°C (130°F) sion having a pH s
<b>ASTE CHARACTERISTICS</b>	Ignitability (40 CFR 261.21) (722: 22-66261.21) Corrosivity (40 CFR 261.22) (722: 22-66261.22) Reactivity (40 CFR 261.22) (722:22-66261.23)	Matrix Liquid Solid Liquid Solid	Method ASTM D-9 EPA 9040 EPA 1110 EPA 9045 SW846, C	3 NACE hapter 7	Criteria Exhibits the i solutions cor pressure, of when ignited Exhibits the if it corrodes if it is not any 2 or 212 5 Exhibits the 1. It is norm 2. It reacts v 3. It forms pi 4. When pin	characteristic of ignitability: if it is a fiquid, and maining 2-8% isothol by volume are consider domains of the shough field on the should be also causing for through field on, also should be also howns so vignously and generation that the domains of the should be also also should be also should be also also also also also also also also	I has a flash poi red ignitable and and is capable, issure or sporta reates a hazard d has a pH s 2 d in. per year at a sight of water, p uy of the followin uange without de	nt <60°C (140' do not require under standarmeous chemic sr ≥12.5 (Sec test temperation oduces a solu g properties: tonating.	F). Aqueous flash point testing 5 temperature and al changes and, 260.20 and 260.21 ire of 55°C (130°F) tion having a pH s
WASTE CHARACTERISTICS	Ignitability (40 CFR 261.21) (T22: 22-66261.21) Corrosivity (40 CFR 261.22) (T22: 22-66261.22) Reactivity (40 CFR 261.22) (T22: 22-66261.23)	Matrix Liquid Solid Liquid Solid	Method ASTM D-9 EPA 9040 EPA 1110 EPA 9045 SW846, C	NACE	Criteria Exhibits the isolutions con- pressure, of when ignited Exhibits the if it corrodes if it is not age 2 or 212.5 Exhibits the 1. It is norm 2. It reacts v 3. It forms p 4. When mil: danger to hu	characteristic of ignitability: if it is a legal, and naming 2-8% lackhol by volume are consider distances of the second second second second second causing for through fiction, absorption of mo- burns to vigrounds of distances and a distances of the distances of the 2-8 second se	I has a flash poi ed ignitable and and is capable, isture or sponta reades a hazard d has a pH s 2 u in, per year at a sight of water, p uy of the followin lange without de rs, or fumes in i	nt <60°C (140' i do not require under standar necus chemic sr ≥12.5 (Sec test temperati oduces a solu g properties; tonating, a quantity suffi	F). Aqueous flash point testing l'emperature and al changes and, 260.20 and 260.21 ire of 55°C (130°F) tion having a pH s
S WASTE CHARACTERISTICS	Ignitability (40 CFR 261.21) (T22: 22-66261.21) Corrosivity (40 CFR 261.22) (T22: 22-66261.22) Reactivity (40 CFR 261.22) (T22:22-66261.23)	Matrix Liquid Solid Liquid Solid	Method ASTM D-9 EPA 9040 EPA 1110 EPA 9045 SW846, C	3 NACE hapter 7	Criteria Exhibits the solutions cor pressure, of when ignited Exhibits the fit is not ap 2 or 2125 Exhibits the 1. It is norm 2. It reacts 3. It forms p 4. When mit danger to hu 5. It is a cya	characteristic of ignitiability if it is a legal, and initialing 2-26%, skicolo by volume are consider making a 2-26%, skicolo by volume are acconsider oursamp for through fination, alteroiter, alteroiter, and an experimental strategies and a skicologies of the constraints of the strategies of the skicologies of the constraints of the skicologies of th	t has a flash poi red ignitable and and is capable, isture or sporta reates a hazard d has a pH ≤ 2 t in. per year at a hight of water, p y of the followin ange without de ars, or fumes in i posed to pH cor	nt «60°C (140' i do not require under standare nous chemic rest 212.5 (Sec test temperate oduces a solu g properties, tonating, a quantity suffi rátions betwee	F). Aqueous flash point testing Temperature and al changes and, 260.20 and 260.21 floon having a pH s clent to present a m 2 and 12.5 can
OUS WASTE CHARACTERISTICS	Ignitability (40 CFR 261.21) (T22: 22-66261.21) Corrosivity (40 CFR 261.22) (T22: 22-66261.22) Reactivity (40 CFR 261.22) (T22:22-66261.23)	Matrix Liquid Solid Liquid Solid	Method ASTM D-0 EPA 9040 EPA 1110 EPA 9045 SW846, C	NACE	Criteria Exhibits the isolutions cor- Exhibits the pressure, of when ignited Exhibits the if it corrodes if it corrodes in the ison of a correct the isolation of the it corrodes isolation of the isolation of the ison of a correct the isolation of the isolation of the isolation of the isolation of the isolation of the isolation of the isolation of the isolation of the isolation of the isolation of the isolation of the isolation of the isolation of the isolation of the isolation of the isolation of the isolation of the isolation of the isola	characteristic of ignitability: if it is a legal, and naming 2-8% lackhol by volume are consider durating the second second second second second causing the through fiction, absorption of mo- bum is surgicously and parameterish that is a second s	d has a flash poi red ignitiable and and is capable, isture or sporta reates a hazard of has a pH s 2 d in. per year at a sight of water, p vy of the followin uange without de rs, or fumes in i posed to pH cor ent to present a	nt «60°C (140' do not requir under standari neous chemic r ≥12.5 (Sec test temperati oduces a solu g properties, tonating, a quantity suffi ditions betwee danger to hum	F). Aqueous flash point testing I temperature and al changes and, 260.20 and 260.21 cond 2
<b>TOUS WASTE CHARACTERISTICS</b>	Ignitability (40 CFR 261.21) (722: 22-66261.21) Corrosivity (40 CFR 261.22) (722: 22-66261.22) Resectivity (40 CFR 261.22) (722:22-66261.23)	Matrix Liquid Solid Solid	Method ASTM D-8 EPA 9040 EPA 1110 EPA 9045 SW846, C Sec 7.3.3	3 NACE	Criteria Exhibits the isolutions core Exhibits the pressure, of when ignited Exhibits the isolutions core if it is nort ag 2 or 212 2 Exhibits the if 1. It is nort 2. It reacts 2. It reacts 4. When mit danger to hu 5. It is a cya generate tox wervironment The current I.	characteristic of ignitiability if it is a legal, and initiality 2-26% isolated by volume are consider making 2-26%, isolated by volume are acconsider outsign (if the image) fination, alteriating if it is not assumed the image) fination, alteriating if it is approach and an initiation of the image in the image. The image is the (CME 1000) at rate 4-3.5 km or o.2.350, account and, when mixed with an equivalent or a state (CME 1000) at rate 4-3.5 km or o.2.350, account and, when mixed with an equivalent of white water.	d has a flash poi ded ignitable and and is capable, isture or sponta reates a hazard d has a pH s2 in in. per year at a light of water, p uy of the followin ange without de irs, or fumes in i posed to pH cor ent to present a det: 250 mg HCI	nt «60°C (140° do not require under standar neous chemic r ≥12.5 (Sec test temperatio oduces a solu g properties, fonating, a quantity suffi ditions betwee danger to hum k/kg waste.	F). Aqueous flash point testing I temperature and al changes and, 260.20 and 260.21 are of 55°C (130°F) ion having a pH s clent to present a m 2 and 12.5 can tan health or the
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HAZARDOUS WASTE CHARACTERISTICS	Ignitability (40 CFR 261,21) (722: 22-66261.21) Corrosivity (40 CFR 261,22) (722: 22-66261.22) (722: 22-66261.22) (722: 22-66261.23) (722: 22-66261.23)	Matrix Liquid Solid Solid Solid	Method ASTM D-0 EPA 9040 EPA 1110 EPA 9045 SW846, C Sec. 7.3.3.	3 NACE hapter 7 EdA waste, or n	Criteria Exhibits the solutions cor Exhibits the pressure, of when ignited Exhibits the it is corrodes If it is not ag 2 or 212 5 Exhibits the 1. It is not ag 2 or 212 5 Exhibits the 1. It is not 3. It forms put danger to humen min danger to humen min danger to humen min danger to humen min the current I he stood of the stood of the current I he stood of the stood of the stood of the stood of	characteristic of ignitiability if it is a liquid, and making 2-2%, sicilarlo by volume are consider making 2-2%, sicilarlo by volume are a consider making the princip findow, alterophysics of the production of the princip findow, and the princip field of the princip findow and the princip field of the princip field of the princip field of the princip field of the princip field of the princip field of the princip of the princip field of the princip field of the princip of the princip field of the princip field of the princip of the princip field of the princip field of the princip of the princip field of the princip field of the princip of the princip field of the princip field of the princip of the princip field of	I has a flash poi red ignitable and and is capable, issue or sponta reates a hazard d has a pH s 2 t issue of the sponta angle of water, p. angle of the followin angle of the followin angle of the sponta to present a fill is a subject ossilion or reactivity of or a class A of bHour LCS0 less	nt «60°C (140° do not require under standar neous chemic schemic oduces a solu g properties: tonating. a quantity suffi ditions betwee danger to hur i/kg waste. g waste. do a strong in at standard c B explosive, a tan 500mb/	F). Aqueous fash point lesting the preparature and al changes and, 2002 20 and 2002 11 2002 2002 2002 2002 2002 control 2002 2002 2002 control 2002 2002 2002 control
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# Hazardous Waste Identification

#### Maximum Concentration of Contaminants for the Toxicity Characteristic Leaching Procedure

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Contaminant	EPA	CAS	Regulatory
	Hazardous	Number	Limit
	Waste No.		(mg/l)
Arsenic	D004	7440-38-2	5.0
Barium	D005	7440-39-3	100.0
Benzene	D018	71-43-2	0.5
Cadmium	D006	7440-43-9	1.0
Carbon Tetrachloride	D019	56-23-5	0.5
Chlordane	D020	57-74-9	0.03
Chlorobenzene	D021	108-90-7	100.0
Chloroform	D022	67-66-3	6.0
Chromium	D007	7440-47-3	5.0
o-Cresol	D023	95-48-7	200.0
m-Cresol	D024	108-39-4	200.0
p-Cresol	D025 •9	-48-7, 108-39-4, 106-44-5	200.0
Cresol	D026	*****	200.0
2,4-D Acid	D016	94-75-7	10.0
1,4-Dichlorobenzene	D027	106-46-7	7.5
	D028	107-06-2	0.5

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# Hazardous Waste Identification

1,1-Dichloroethylene	D029	75-35-4	0.7
2,4-Dinitrotoluene	D030	121-14-2	0.13
Endrin	D012	72-20-8	0.02
Heptachlor (and its epoxides)	D031	76-44-8	0.008
Hexachlorobenzene	D032	118-74-1	0.13
Hexachlorobutadiene	D033	87-68-3	0.5
Hexachloroethane	D034	67-72-1	3.0
Lead	D008	7439-92-1	5.0
Lindane	D013	58-89-9	0.4
Mercury	D009	7439-97-6	0.2
Methoxychlor	D014	72-43-5	10.0
Methyl Ethyl Ketone	D035	78-93-3	200.0
Nitrobenzene	D036	98-95-3	2.0
Pentrachlorophenol	D037	87-86-5	100.0
Pyridine	D038	110-86-1	5.0
Selenium	D010	7782-49-2	1.0
Silver	D011	7440-22-4	5.0
Tetrachloroethylene	D039	127-18-4	0.7
Toxaphene	D015	8001-35-2	0.5
Trichloroethylene	D040	79-01-6	0.5
2,4,5-Trichlorophenol	D041	95-95-4	400.0
2,4,6-Trichlorophenol	D042	88-06-2	2.0
2,4,5-TP (Silvex)	D017	93-72-1	1.0
Vinyl Chloride	D043	75-01-4	0.2
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California		Federal
Cal/EPA Department of Toxic Substances Control	Agency	Environmental Protection Agency
Hazardous Substance Control Law Hazardous Substances Account Act Hazardous Substance Cleanup Bond Act of 1984	Law	RCRA, HSWA CERCLA, SARA TSCA
22 CCR Division 4.5	Regs	40 CFR Parts 124, 260-280
HSC § 25117	Definition	RCRA 1004 (5); 40 CFR 261.4 exclusions
Corrosinity     Corrosinity     Corrosinity     Corrosinity     Studi     Sectivity     Toxicity     STLC     Toxicity     STLC     Toxicity     STLC     Softenet     Corrosinity     Co	→ → → → → → ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Correstivity     a liquid     b) solid     Sectivity     TCLP     a) 9 Inorganics     b) 31 organics
Referenced in 22 CCR Chapter 11 Article 4	Lists	F.K.P.U.
RCRA Hazardous Waste Extremely Hazardous Waste non-RCRA Hazardous Waste Special Waste	Categories	Hazardous Waste Acute Hazardous Waste
22 CCR § 66260.210	Variance	40 CFR 260.20, 260.22









F001	These spent halogenated solvents used in degreasing; spent solvent mixtures used in degreasing containing, before use, a total of 10 percent or more by volume of these solvents or the solvents listed in F002, F004, or F00 and still bottoms from the reclamation of these spent solvent and spent solvent mixtures used in degreasing. (Tj
	carbon tetrachloride
	chlorinated fluorocarbons
	methylene chloride
	tetrachloroethylene, also called perchloroethylene
	• 1,1,1-trichloroethane
	trichloroethylene, also called 'TCE'
F002	These spent halogenated solvents; spent solvent mixtures containing, before use, a total of 10 percent or more by volume of these solvents or the solvents listed in F001, F004, or F005, and still bottoms from the reclamation of these spent solvent and spent solvent mixtures. (T) <sup>1</sup>
	chlorobenzene
	methylene chloride
	ortho-dichlorobenzene
	tetrachloroethylene, also called 'perchloroethylene'
	• 1,1,1-trichloroethane
	1,1,2-trichloroethane
	trichloroethylene, also called 'TCE'
	trichlorofluoromethane
	1,1,2-trichloro-1,2,2-trifluoroethane
F003	These spent non-halogenated solvents; spent solvent mixtures containing, before use, either only these non-halogenated solvents, or one or more of these non-halogenated solvents and a total of 10 percent or more by volume of the solvents listed in F001, F002, F004, or F005, and still bottoms from the reclamation of these spen solvent and spent solvent mixtures. (I) <sup>1,2</sup>
	• acetone
	cyclohexane
	ethyl acetate
	ethyl benzene
	ethyl ether
	methanol
	methyl isobutyl ketone
	n-butyl alcohol
	• xylene
F004	These spent non-halogenated solvents; spent solvent mixtures containing, before use, a total of 10 percent or more by volume of these solvents or the solvents listed in F001, F002, or F005, and still bottoms from the reclamation of these spent solvent and spent solvent mixtures. $(T)^1$
	cresols and cresvlic acid

F005	These spent non-halogenated solvents; spent solvent mixtures containing, before use, a total of 10 percent or more by volume of these solvents or the solvents listed in F001, F002, or F004, and still bottoms from the reclamation of these spent solvent and spent solvent mixtures. $(1,T)^i$
	• benzene
	carbon disulfide
	2-ethoxyethanol
	isobutanol
	methyl ethyl ketone, also called 'MEK'
	2-nitropropane
	Pyridine
	• toluene
Metal	treating (F006-F012 and F019)
F006	All wastewater treatment sludges from electroplating operations except those from these processes. However, these sludges may still be hazardous for a hazardous waste characteristic. (T)
	sulfuric acid anodizing of aluminum
	tin plating of carbon steel
	<ul> <li>zinc plating (segregated basis) on carbon steel</li> </ul>
	<ul> <li>aluminum or zinc aluminum plating on carbon steel</li> </ul>
	<ul> <li>cleaning/stripping associated with tin, zinc, and aluminum plating on carbon steel</li> </ul>
	chemical etching and milling of aluminum
F007	Spent cyanide plating bath solutions from electroplating operations. (R,T)
F008	Plating bath sludges from the bottom of plating baths from electroplating operations where cyanides are used in the process. $(R,T)^3$
F009	Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process Sludges formed in electroplating stripping and cleaning bath solution tanks where cyanides are used in the process are also included. $(R,T)^3$
F010	Quenching bath residues from oil baths from metal heat-treating operations where cyanides are used in the process. $(R,T)^3$
F011	Spent cyanide solutions from salt bath pot cleaning from metal heat-treating operations. (R,T)
F012	Quenching waste water treatment sludges from metal heat treating operations where cyanides are used in the process. $(R,T)^3$
F019	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. (T) <sup>4</sup>
Manu	facturing and processing (F020-F026)
F020	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- or tetrachlorophenel or of intermediate used to produce their period derivatives $(H)^{S6}$

F021	Wastes (except wastewater and spent carbon from hydrogen chloride purific manufacturing use (as a reactant, chemical intermediate, or component in a pentachlorophenol, or of intermediates used to produce its derivatives. (H) <sup>5</sup>	cation) from the production or formulating process) of					
F022	Wastes (except wastewater and spent carbon from hydrogen chloride purific a reactant, chemical intermediate, or component in a formulating process) o under alkaline conditions. $(H)^5$	cation) from the manufacturing use ( f tetra-, penta-, or hexachlorobenzer					
F023	Wastes (except wastewater and spent carbon from hydrogen chloride purific materials on equipment previously used for the production or manufacturing intermediate, or component in a formulating process) of tri- and tetrachlorop	cation) from the production of g use (as a reactant, chemical phenols. $(H)^{5.7}$					
F024	Process wastes from the production of chlorinated aliphatic hydrocarbons w through five by free radical catalyzed processes, with any amount and positi wastes include but are not limited to, distillation residues, heavy ends, tars, a not include F025 wastes. ( $T$ ) <sup>8</sup>	rith carbon chain lengths from one ion of chlorine substitution. Process and reactor clean-out wastes, but do					
F025	Condensed light ends, spent filters and filter aids, and spent desiccant waste aliphatic hydrocarbons with carbon chain lengths from one through five by any amount and position of chlorine substitution. (T)	s from the production of chlorinated free radical catalyzed processes, wit					
F026	Wastes (except wastewater and spent carbon from hydrogen chloride purific materials on equipment previously used for the manufacturing use (as a read component in a formulating process) of tetra-, penta-, or hexachlorobenzene	cation) from the production of etant, chemical intermediate, or e under alkaline conditions. (H) <sup>5</sup>					
F027	Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (H) <sup>5,9</sup>						
	F027 includes, but is not limited to:	CAS Registry #					
	Acetic acid, (2.4.5-trichlorophenoxy)-	93-76-5					
	• Pentachlorophenol or Phenol, pentachloro-	87-86-5					
	Phenol, 2.3,4,6-tetrachloro-	58-90-2					
	Phenol, 2.4.5-trichloro-	95-95-4					
	Phenol, 2,4,6-trichloro-	88-06-2					
	• Silvex (2,4,5-TP) or Propanoic acid, 2-(2,4,5-trichlorophenoxy)-	93-72-1					
	• 2,4,5-T	93-76-5					
	2,3,4,6-Tetrachlorophenol	58-90-2					
	2,4,5-Trichlorophenol	95-95-4					
	2,4,6-Trichlorophenol	88-06-2					
Conta	aminated soil treatment residues (F028)						
F028	Residues resulting from the incineration or thermal treatment of soil contam	inated with hazardous waste codes					





Waste	CAS registry #	Generic listed name	Listing
ode	504.00.0		reason
2002	591-08-2	1-Acetyl-2-thiourea	н
2003	107-02-8	Acrolein	H
>070	116-06-3	Aldicarb	H
203	1646-88-4	Aldicarb sulfone	н
2004 2004	309-00-2	Aldrin	н
2005	107-18-6	Allyl alcohol	н
2006 2006	20859-73-8	Aluminum phosphide	в, т
2007	2763-96-4	5-(Aminomethyl)-3-isoxazolol	н
2008	504-24-5	4-Aminopyridine	н
009	131-74-8	Ammonium picrate	R
119	7803-55-6	Ammonium vanadate	н
010	7778-39-4	Arsenic acid H <sub>3</sub> AsO <sub>4</sub>	н
011	1303-28-2	Arsenic pentoxide	н
012	1327-53-3	Arsenic trioxide	н
054	151-56-4	Aziridine	н
067	75-55-8	Aziridine, 2-methyl-	н
013	542-62-1	Barium cyanide	н
028	100-44-7	Benzyl chloride	н
015	7440-41-7	Beryllium powder	н
017	598-31-2	Bromoacetone	н
018	357-57-3	Brucine	н
021	592-01-8	Calcium cyanide	н
127	1563-66-2	Carbofuran	н
022	75-15-0	Carbon disulfide	н
189	55285-14-8	Carbosulfan	н
023	107-20-0	Chloroacetaldehyde	н
024	106-47-8	p-Chloroaniline	н
029	544-92-3	Copper cyanide	н
030		Cyanides (soluble cyanide salts), not otherwise specified	н
031	460-19-5	Cyanogen	н
033	506-77-4	Cvanogen chloride	н
016	542-88-1	Dichloromethyl ether	н
036	696-28-6	Dichlorophenylarsine	н
037	60-57-1	Dieldrin	н
038	692-42-2	Diethylarsine	н
043	55-91-4	Diisopropylfluorophosphate (DEP)	н
044	60-51-5	Dimethoate	н
191	644-64-4	Dimetilan	н
020	88-85-7	Dinoseb	н
039	298-04-4	Disulfoton	н
2049	541-53-7	Dithiobiuret	н
2050	115-29-7	Endosulfan	н
088	145-73-3	Endothall	1
055	72 20 8	Endrin & motobolitos	C C
051	12-20-8	Endrin & metabolites	-

Waste code	CAS Registry #	Generic name	Reason
U394	30558-43-1	A2213	(T)
U001	75-07-0	Acetaldehyde	(I) <sup>1</sup>
U034	75-87-6	Acetaldehyde, trichloro-	(T)
U187	62-44-2	Acetamide, N-(4-ethoxyphenyl)-	(T)
U005	53-96-3	Acetamide, N-9H-fluoren-2-yl-	(T)
U240	94-75-7	Acetic acid, (2,4-dichlorophenoxy)-, salts & esters	$(T)^2$
U112	141-78-6	Acetic acid ethyl ester	(I) <sup>1</sup>
U144	301-04-2	Acetic acid, lead(2+) salt	(T)
U214	563-68-8	Acetic acid, thallium(1+) salt	(T)
U002	67-64-1	Acetone	(I) <sup>1</sup>
U003	75-05-8	Acetonitrile	(I,T)
U004	98-86-2	Acetophenone	(T)
U005	53-96-3	2-Acetylaminofluorene	(T)
U006	75-36-5	Acetyl chloride	(C,R,T
U007	79-06-1	Acrylamide	(T)
U008	79-10-7	Acrylic acid	(I) <sup>1</sup>
U009	107-13-1	Acrylonitrile	(T)
U011	61-82-5	Amitrole	(T)
U012	62-53-3	Aniline	(I,T)
U136	75-60-5	Arsinic acid, dimethyl-	(T)
U014	492-80-8	Auramine	(T)
U015	115-02-6	Azaserine	(T)































## (Federal only)

- On-site generator may treat hazardous waste in containers, tanks, or containment buildings (within 90 days or 180 days) Except:
- No dilution (prohibited under 40 CFR 268.3)
- No evaporation (either passive or heat-applied).
- Available to SQG, & LQG

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 VSQG must meet specified performance standards for episodic events















![](_page_46_Picture_1.jpeg)

![](_page_46_Picture_3.jpeg)

![](_page_47_Figure_1.jpeg)

![](_page_47_Figure_2.jpeg)

Fed. & CA Generator Requirements				
	What	t, When,	How	
Requirement	Federal VSQG	Federal SQG	Federal LQG	State CESQG
Waste Characterization	Х	X	Х	Х
Obtain EPA ID Number		X	Х	Х
Manifesting		X	Х	X
LDR Notification		X	Х	X
Exception Reporting		(modified)	Х	(modified)
Personnel Training		X	Х	X
Personnel Training Program			Х	
Contingency Plan			Х	
Weekly Inspections		X	X	X
50 Feet from Fence line		X	X	X
CESQG = Conditionally Exempt Small Qu VSQG = Very Small Quantity Generator SQG = Small Quantity Generator LQG= Large Quantity Generator LDR = Land Disposal Restriction	antity Generator		62	020 Beyond Compliance, LLC. All Rights Reserved.

-245 Federal Generator Requirements				
What, When, How				
Requirement	Federal VSQG	Federal SQG	Federal LQG	State CESQG
Post Emergency Information		Х	X	X
Emergency Equipment		Х	Х	Х
Container Management		X	Х	X
Tank Management		X	Х	X
Accumulation Facility Closure			Х	
Biennial Report			Х	
HW Pollution Prevention (CA ONLY)			Х	
Short-term Waste Accumulation Limit (i.e., Satellite accumulation)		Up to 55 gallons of haz and 1 quart of acu waste	zardous waste tely hazardous	Up to 55 gallons of hazardous waste and 1 quart of acutely or extremely hazardous waste
		<b>NOTE:</b> CA law prohibits storing HW for more than 1 year from accumulation		<b>NOTE</b> : CA law prohibits storing HW for more than one year from accumulation.
Long-term Waste Accumulation Limit		180 Days	90 Days	180 Days
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Fed & CA Generator Requirements				
What, When, How				
Requirement	Federal VSQG	Federal SQG	Federal LQG	State CESQG
Post Emergency Information		X	Х	X
Emergency Equipment		X	X	X
Container Management		X	X	X
Tank Management		X	X	Х
Accumulation Facility Closure			Х	
Biennial Report			Х	
HW Pollution Prevention (CA ONLY)			Х	
Short-term Waste Accumulation Limit (i.e., Satellite accumulation)		Up to 55 gallons of hazardous waste and 1 quart of acutely hazardous waste <b>NOTE:</b> CA law prohibits storing HW for more than 1 year from accumulation		Up to 55 gallons of hazardous waste and 1 quart of acutely or extremely hazardous waste
				<b>NOTE:</b> CA law prohibits storing HW for more than one year from accumulation.
Long-term Waste Accumulation Limit		180 Days	90 Days	180 Days
beyond compliance law				© 2020 Beyond Compliance, LLC. All Rights Reserved.

# Automatic Extension to Accumulation Time

#### (22 CCR 66262.34)

If non-RCRA or RCRA-exempt hazardous wastes must remain on-site for longer than the applicable accumulation time period as a result of unforeseeable, temporary, and uncontrollable circumstances, a one-time extension of up to 30 days is automatically granted if the generator meets all of these conditions (22 CCR 66262.35(a)(1)):

- The generator submits a letter, by certified mail with return receipt requested, to the CUPA, notifying the CUPA of the extension.
- Generators authorized by Cal/EPA with a permit, Standardized Permit, or grant of interim status must simultaneously submit to Cal/EPA a copy of the letter sent to the CUPA or authorized officer or agency.
- Provides, upon request by the CUPA or authorized officer or agency, all documents, operating logs, reports, or any other information that supports the claim of necessity for the extension or relates to the management of the hazardous waste for which the extension is requested.

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![](_page_49_Figure_9.jpeg)

![](_page_50_Figure_1.jpeg)

![](_page_50_Figure_3.jpeg)

![](_page_51_Figure_1.jpeg)

![](_page_51_Figure_2.jpeg)

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![](_page_52_Figure_1.jpeg)

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![](_page_57_Figure_2.jpeg)

![](_page_58_Figure_1.jpeg)

![](_page_58_Picture_2.jpeg)

![](_page_59_Figure_1.jpeg)

![](_page_59_Figure_3.jpeg)

#### What is a Universal Waste? Spent batteries, mercury-containing lamps (e.g., some fluorescent bulbs, mercury vapor lamps, and high intensity discharge [HID] lamps), mercury-containing appliances, mercury thermostats and switches Unused pesticides - Fed but Not CA The following UWs are subject to regulation in California (22 CCR 66273.1): Batteries, as described in <u>22 CCR 66273.2(a)</u> Electronic devices, as described in section <u>22 CCR 66273.3(a)</u> Mercury Containing Equipment (MCE), as described in 22 CCR 66273.4(a) Lamps, as described in 22 CCR 66273.5(a) (including, but not limited to, M003) wastes) Cathode Ray Tubes (CRTs) as described in <u>22 CCR 66273.6(a)</u> CRT glass, as described in <u>22 CCR 66273.7(a)</u> Non-empty aerosol cans, as described in CH & SC 25201.16 Cal/EPA's DTSC administers and enforces the universal waste (UW) rules in California Sometimes the local CUPA must be notified of UW activities beyond compliance law © 2020 Beyond Compliance, LLC, All Rights R

34	ß	SOHUW	LQHUW
一般語語	Quantity limit	< 5,000 kg on site §273.6	≥5,000 kg on site §273.6
	EPA Identification Number	Not required §273.12	Required §273.32
	On-site accumulation limit	< 5,000 kg §273.6	No limit
	Storage time limit	1 year, unless for proper recovery, treatment, or disposal §273.15	1 year, unless for proper recovery, treatment, or disposal §273.35
	Manifest	Not required §273.19	Not required, but must keep basic shipping records §273.39
	Personnel training	Basic training §273.16	Basic training geared toward employee responsibilities §273.36

![](_page_61_Picture_1.jpeg)

![](_page_61_Figure_3.jpeg)

![](_page_62_Picture_1.jpeg)

![](_page_62_Figure_2.jpeg)

![](_page_62_Figure_3.jpeg)

# **Definition of Treatment**

(40 CFR 260.10/22 CCR 66260.10)

"Treatment" means any method, technique, or process, including neutralization, designed to change the physical, chemical, or biological character or composition of any hazardous waste so as to neutralize such waste, or so as to recover energy or material resources from the waste, or so as to render such waste non-hazardous, or less hazardous; safer to transport, store, or dispose of; or amenable for recovery, amenable for storage, or reduced in volume.

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![](_page_63_Figure_5.jpeg)

![](_page_64_Figure_1.jpeg)

![](_page_64_Figure_2.jpeg)

![](_page_65_Picture_1.jpeg)

![](_page_65_Figure_3.jpeg)

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