

Basic Hazardous Waste Management

22 CCR 66262.16(b)(7)(C) & 22 CCR 66262.17(a)(7)

Course Objective

- This course covers an introduction to the federal and State regulations regarding the classification, management, transportation, and disposal of hazardous waste for generators in California.
- Training will also cover the new Generator Improvements Rule (GIR) for California generators.

Introduction toHazardous Waste Management

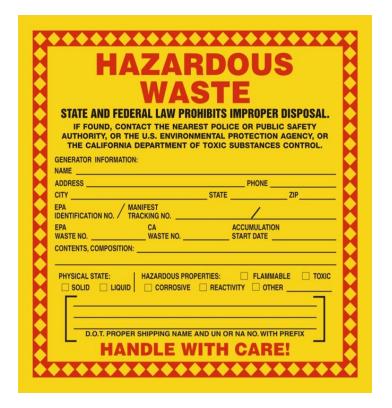


Student Manual
9th Edition



Course Outline

- Regulatory Overview & Recordkeeping Requirements
- Hazardous Waste Determination
- Hazardous Waste Management
- Shipping Requirements





Hazardous Waste Regulations

Resource Conservation and Recovery Act (RCRA): 40 CFR 260 – 268/273: US EPA

California Statutes: HSC Division 20,

Chapter 6.5: DTSC

California Regulations: 22 CCR 66260 -

66268/66273: DTSC

- CUPA will provide hazardous waste generator inspections
- Facilities with HMBPs will be inspected at least once every three years



A <u>generator</u> is any person, by site, whose act or process produces hazardous waste or whose act first causes a waste to become subject to regulation as a hazardous waste.

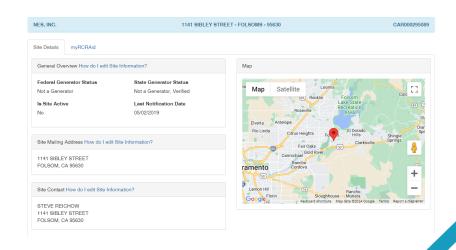




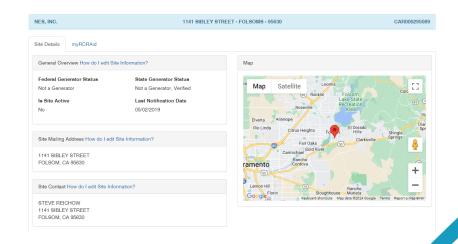
Generator category based on quantity of waste generated in a calendar month.

| Generator Category | Acute Haz Waste | Extremely Haz Waste | Non-Acute Haz Waste |
|--------------------------------------|--------------------|------------------------|------------------------|
| Large Quantity Generator (LQG) | > 1 kg | Any Amount | Any Amount |
| Large quantity generator (LQG) | Any Amount | > 1 kg | Any Amount |
| Large quantity generator (LQG) | Any Amount | Any Amount | ≥ 1,000 kg |
| Small quantity generator (SQG) | ≤ 1 kg | ≤ 1 kg | < 1,000 kg |
| Very small quantity generator (VSQG) | ≤ 1 kg | | ≤ 100 kg |

 Each site that generates hazardous waste must have an ID number



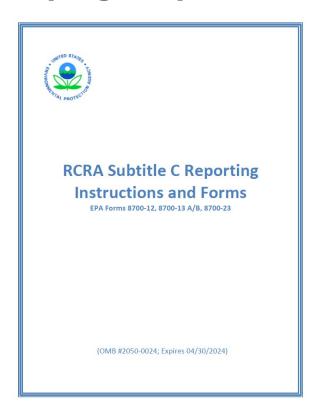
- California ID numbers issued by DTSC (< 100 kg non-acute or < 1 kg acute RCRA hazardous waste in any month)
 - CAL permanent;
 - CAC provisional;
- EPA ID numbers issued by U.S. EPA (> 100 kg non-acute or > 1 kg acute RCRA hazardous waste in any month)
 - CAR current
 - CA not issued since 1995
 - CAD not issued since 1993
 - CAT preceded CAD
 - CAP provisional



- DTSC requires all generators to verify their ID numbers (State and federal) annually
- If ID numbers are not verified, they will be deactivated



- U.S. EPA requires generators to re-notify
 - SQGs: Every four years (beginning 2024)
 - » Notification is made with EPA Form 8700-12 (or online: RCRAinfo) by September 1st
 - LQGs: Each even numbered year
 - » Notifications made as part of Biennial Report



- Contingency Plan LQGs
 - Outlines emergency actions involving hazardous waste incidents
 - Fire
 - Explosions
 - Spills & releases



- Contents
 - Emergency Coordinator
 - Emergency procedures
 - Emergency services and arrangements to coordinate response actions
 - Emergency equipment
 - Evacuation Plan
 - Cal OES contact
- Copy maintained on-site



- Reviewed and updated when
 - Regulations change;
 - Plan fails;
 - Facility changes design or response operations;
 - Emergency Coordinator changes; OR
 - Emergency equipment changes





- Contingency Plan LQGs
 - Quick Reference Guide (QRG)
 - Hazardous wastes and associated hazards
 - Maximum amount of each hazardous waste stream
 - Hazardous waste streams where exposure would require unique or special treatment
 - Map identifying hazardous waste accumulation areas
 - Street map with surrounding businesses
 - Locations of water supply (e.g. fire hydrant and its flow rate)
 - Notification systems (e.g., a fire alarm that rings offsite, smoke alarms)
 - Names and numbers of emergency coordinators





Emergency Procedures - SQGs

- At all times, there must be at least one employee, either on the premises or on call, available to respond to an emergency
- Information must be posted next to telephones OR in areas directly involved in the generation and accumulation of hazardous waste
 - Name & number of Emergency Coordinator
 - Location of fire extinguishers & spill control equipment
 - Fire Department number

| In case of a fire, spill, or other wastes, do the following: | emergency involving haza | rdous chemicals o |
|---|--|------------------------------------|
| Major Emergency | | |
| ⇒ Evacuate the affected areas prepared ⇒ Call 911 and report the emergency to the features | gency | |
| Minor Emergency | | |
| ⇒ Try to control the emergency ⇒ Report the emergency to the f | if you are trained to do so a facility Emergency Coordinate | nd can do it safely ator |
| Facility E | mergency Coordinators | |
| Name Primary EC: Ist Alternate EC: 2nd Alternate EC: 3rd Alternate EC: | Work Phone | 24 Hour Phone |
| Emo | ergency Agencies | |
| Agency Fire Dept., Ambulance, Police Governor's Office of Emergency Service | es | Phone No. 911 (800) 852-7550 |
| Emer | rgency Equipment | |
| ocations of fire extinguishers, fire also | arms (if any) and equipment f | or controlling chemic |

- Generators must make (or attempt to make) arrangements with local authorities for mitigation of emergencies
 - Fire Department
 - Police Department
 - Emergency Responders
 - Hospitals
- Documentation must be made that arrangements were made (or attempted to be made)



Biennial Report

- Required & certified by <u>RCRA</u> LQGs
- Report covers odd-numbered year (2023, 2025, etc.)
 - Contains amounts by waste code
 - Identifies source and origin of waste
 - Identifies disposal method (recycled, incinerated, etc.)
 - Describes waste minimization efforts
- Due March 1st of even-numbered year (2024, 2026, etc.)
- Copy kept on-site for three years



Tank Assessments - LQGs

- Tank system and components certified by qualified Professional Engineer (PE)
- Supported and protected from corrosion
- Tested for tightness
- Protected from settlement, expansion, or contraction
- Must be completed prior to putting tank into service and then once every five years for new tanks



- Shipping/Disposal documents
 - Uniform Hazardous Waste Manifest
 - Consolidated manifest receipts
 - Universal Waste tracking records
 - Three years from date of shipment



Hazardous Waste Training Requirements - SQGs

- Employees must be familiar with proper waste handling and emergency response procedures relevant to their responsibilities
- Annual training is a BMP
- Training should be documented

Hazardous Waste Training Requirements - LQGs

- Personnel must successfully complete a program of either:
 - Classroom, computer-based, or electronic instruction; OR
 - On-the-job (OTJ) training
- Training must cover hazardous waste management procedures and emergency response training
- Training must be provided within 180 days of hire / job placement
- Annual training required

- Personnel involved in shipping hazardous waste must receive DOT Hazmat Employee training [49 CFR 172.704]
- Training records must be maintained until facility closes; or
- Three years for former employees



- A person who generates a waste must determine if the waste is hazardous by determining if the waste:
 - Is excluded from regulation
 - Is listed
 - Exhibits any hazardous waste characteristics
- Determinations can be made by:
 - Testing the waste
 - Generator's knowledge

- Waste is any discarded material of any form (liquid, semisolid, solid, or gaseous) that is not excluded by regulation or statute:
 - Relinquished (disposed of, burned or incinerated, or accumulated, stored, or treated prior to or in lieu of disposal)
 - Recycled (applied to land in a manner constituting disposal, used in products that are applied to land, burned to recover energy, reclaimed, or speculatively accumulated)
 - [Continued...]

- Inherently waste-like materials when recycled (e.g., F020, F021 [with one exception], F022, F023, F026, and F028 all dioxin-precursor waste)
- A material that poses a threat to human health and/or the environment that has been mislabeled or unlabeled for more than 10 days (i.e., 10 days from the day that the labeling deficiency was first discovered)
- A material that poses a threat to human health and/or the environment contained in a deteriorated or damaged packaging for more than 96 hours

- Materials that are not waste
 - Industrial wastewater discharges
 - Nuclear byproducts
 - Spent sulfuric acid used to produce virgin sulfuric acid
 - Pulping liquors reclaimed in a pulping liquor recovery furnace
 - Secondary materials that are returned to the original process

Wastes that are not hazardous waste

- Infectious wastes consisting only of animal carcasses
- Materials not classified as a solid waste that do not exhibit a hazardous waste characteristic
- Used oil re-refining distillation bottoms used as a feedstock for asphalt
- Used CFC refrigerants that are reclaimed

- Wastes generated from the extraction and processing of ores and minerals
- Hazardous wastes generated in a tank or manufacturing process unit
- Samples
- Controlled substances
- CRT glass

RCRA Hazardous Waste

- Listed
 - Unspent (U & P)
 - Spent (F & K)
- Characteristics
 - Ignitable (D001)
 - Corrosive (D002)
 - Reactive (D003)
 - Toxic (D004 D043)

Non-RCRA Hazardous Waste

- Presumptive lists
 - Common name
 - Chemical constituents
- Characteristics
 - Ignitable
 - Corrosive
 - Reactive
 - Toxic

RCRA Listed Hazardous Wastes

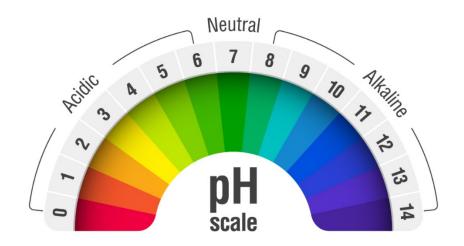
- Spent Wastes
 - F-listed: Hazardous waste from non-specific sources
 - F001 F039
 - K-listed: Hazardous waste from specific sources
 - K001 K175

- Unspent Wastes
 - P-listed: Acute hazardous waste
 - P001 P205
 - U-listed: Toxic hazardous waste (unless noted)
 - U001 U411

- Characteristics of Ignitability (D001)
 - Liquid (other than < 24% alcohol by volume) with a flash point < 140°F (60°C)
 - A solid that can cause fire through friction, absorption of moisture, or spontaneous chemical changes and, when ignited, burns vigorously and persistently
 - Is an ignitable compressed gas
 - Is an oxidizer



- Characteristics of Corrosivity (D002)
 - Aqueous with pH ≤ 2.0 or ≥ 12.5; OR
 - Liquid that corrodes steel at a rate of more than ¼ inch (6.35 mm) per year



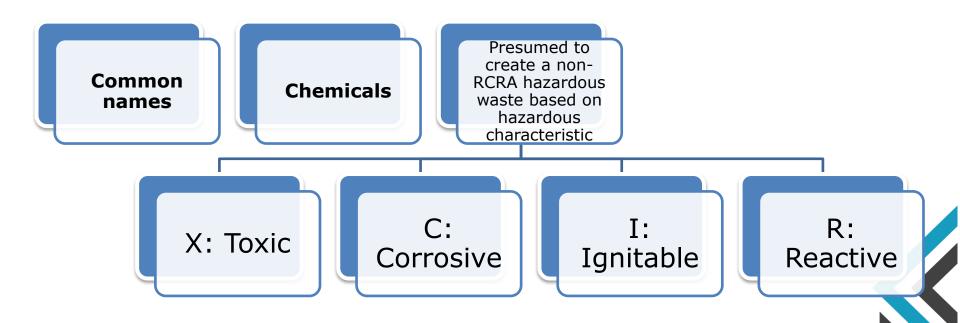
- Characteristics of Reactivity (D003)
 - Unstable and undergoes violent change without detonating;
 - Reacts violently with water;
 - Forms an explosive mixture with water;
 - Generates toxic gases, vapors, or fumes with water;
 - Cyanide- or sulfide-bearing waste producing toxic gases, vapors, or fumes @ pH 2 - 12.5;
 - Capable of detonation or an explosive reaction; OR
 - Forbidden explosive [49 CFR 173.51]



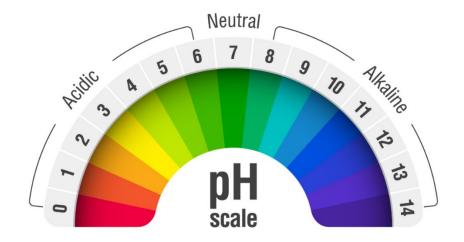
- Characteristics of Toxicity (D004 - D043)
 - Tested using EPA Toxicity Characteristic Leaching Procedure (TCLP)
 - Regulated if ≥ specified threshold



California Presumptive Lists



- Characteristics of Corrosivity (non-RCRA)
 - Non-aqueous wastes that yield pH < 2.0 or > 12.5 when mixed with an equivalent weight of water
 - Non-liquids that corrode steel at a rate of more than ¼ inch (6.35 mm) per year when mixed with an equivalent weight of water



- Characteristics of Toxicity (non-RCRA)
 - Exceeds WET thresholds (Tables II & III);
 - Oral $LD_{50} < 2,500 \text{ mg/kg}$;
 - Dermal $LD_{50} < 4{,}300 \text{ mg/kg};$
 - Inhalation LC₅₀ < 10,000 ppm;
 - Aquatic 96-hr LC₅₀ < 500 mg/L;
 OR
 - Contains a listed carcinogen ≥ 0.001% by weight (10 ppm)



Used oil is defined as oil that has been refined from crude oil or any synthetic oil that has been used, and, as a result of use or as a consequence of extended storage or spillage, has been contaminated with physical or chemical impurities.



Used Oil

- Crankcase oil
- Gear oil
- Vegetable or animal oil used as a lubricant
- Hydraulic oil
- Transformer oil
- Transmission fluid

Not Used Oil

- Antifreeze
- Brake fluid
- Fuels
- Other automotive wastes
- Solvents
- Oil with a flash point < 100°F
- Oil with ≥ 5 ppm PCBs
- Oil with > 1,000 ppm halogens

California Waste Codes

| Restricted Wastes | 700-800 |
|---------------------------------------|---------|
| Inorganics | 100-199 |
| Organics | 200-300 |
| Sludges | 400-499 |
| Miscellaneous | 500-600 |

Exemptions

- Contaminated containers
 [22 CCR 66261.7]
- Spent lead-acid storage batteries
 [22 CCR 66266.80-81]

- Universal wastes[22 CCR 66261.7]
- Used oil filters & used fuel filters [22 CCR 66266.130 / HSC 25250.22]



Hazardous Waste Management

Hazardous Waste Management

A <u>container</u> is a device that is open or closed, and portable, in which material can be stored, handled, treated, transported, recycled, or disposed of.





Hazardous Waste Management

A <u>tank</u> is a stationary device designed to contain an accumulation of hazardous waste constructed primarily of non-earthen materials (e.g., wood, concrete, steel, plastic) that provide structural support.



- Generators must have a designated Central Accumulation Area (CAA)
 - Generators can have multiple CAAs on-site
- LQGs: CAA must be > 50 ft from property line if ignitable (D001) or reactive (D003) waste present



- Ignitable or Reactive hazardous waste - LQGs
 - "No Smoking" signs must be conspicuously placed wherever there is a hazard from ignitable or reactive waste

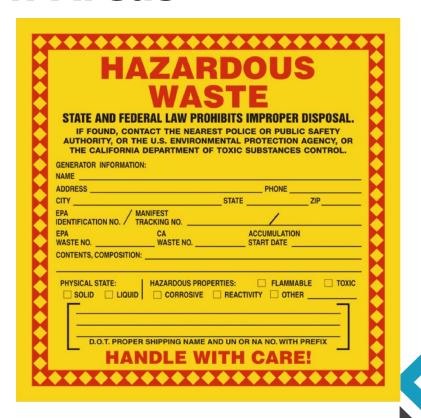


| Generator Category | Accumulation Time Limit & Volume |
|--------------------------------------|--|
| Large Quantity Generator (LQG) | 90 days |
| Small quantity generator (SQG) | 180 days / 6,000 kg 270 days when haz waste is shipped off-site 200 miles, or more 90 days for acute or extremely haz waste |
| Very small quantity generator (VSQG) | No time limit until 100 kg of non-acute or non-extremely haz waste is accumulated (180 days) OR 1 kg of acute or extremely haz waste is accumulated (90 days) |

- Emergency equipment
 - Internal communication devices
 - Fire extinguishers
 - Spill control & decon equipment
 - Water at adequate volume & pressure
- Equipment must be tested and maintained



- Container labeling
 - The words "HAZARDOUS WASTE"
 - Generator's name and address
 - Contents
 - Physical state
 - Hazardous properties
 - Accumulation start date
- Labels must be legible & visible for inspection



- Used Oil containers & tanks must also be marked with "Used Oil"
- Do not mark used oil containers & tanks with "WASTE OIL"





- Hazardous waste containers must be:
 - In good condition (no signs of rust, damage, or leakage)
 - Compatible with the waste
 - Closed (except when adding or removing waste)
 - Managed in a manner so they are not ruptured or caused to leak

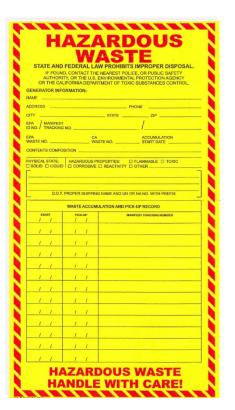


- Hazardous waste tanks must be labeled with:
 - "HAZARDOUS WASTE"
 - Accumulation start date
 - Hazardous property(ies) of the waste
 - This can be accomplished with DOT labels/placards, OSHA pictograms, or NFPA placards



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 Logs to demonstrate tank has been emptied within 90 (LQGs) or 180 (SQGs) days from hazardous waste first entering the tank must be maintained



- Aisle space
 - Must allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency



- Incompatible hazardous waste cannot be mixed in the same container
- Incompatible hazardous waste must be separated or protected by a dike, berm, or wall

| TECHNOTE: POTENTIALLY INCOMPATIBLE WASTES* | | | |
|--|--|--|--|
| GROUP 1-A | GROUP 1-B | POTENTIAL CONSEQUENCES | |
| Acetylene skudge | Add sludge | Host generation Violent reaction | |
| GROUP 2-A - Alumeum - Zinc powder - Beryllium - Sodium - Calcium - Peterolium - Calcium - Magnesium - Other reactive metab and metal lyddods | GROUP 2-8 • Any wester in Group 1-A or 1-8 | five Explosion Generation of Baremable hydrogen 939 | |
| GROUP 3-A * Alcohols | GROUP 3-B - Oddorn - Potavium - Potavium - Other wate- nachtw wate - Liftwan - Martal hydrides - Martal hydrides - Group 1-Aor I-B - Grou | Per Explosion Heat generation Generation of flammable or took genes. | |
| GROUP 4-A | GROUP 4-B | | |
| Alkohols Alkohydes Niested | Concentrated Group 1-A or 1-B Group 2 Waster | Fire Explosion Generation of Bananoble or tools gaves | |
| GROUP 5-A | GROUP 5-B | Generation of toxic hydrogen cranide | |
| * Spent cyanide and suffide solutions | Group 1-8 wastes | Generation of hydrogen sulfide gas | |
| GROUP 6-A - Chlorates - Prechlorates - Chlorine - Immangunates - Chlorine - Premargunates - Chlorate Add - Nitrates - Chlorate Add - Nitrates - Physical Chlorate - Odd Part Introng - Odd 2015 - Nitric and Chromate - Nit | GROUP 6-B * Actic and and other organic Actic - Group 2-A marter * Group 2-A marter * Group 4-A marter **MHS** | Pine Explosion Violent reaction | |

Inspections

- Container inspections
 - Containers must be inspected weekly
 - Leaking containers
 - Deterioration of containers
- Inspections should be documented

- Tank inspections LQGs
 - Each operating day
 - Inspections must be documented
- Tank inspections SQGs
 - Daily (if tank doesn't have secondary containment)
 - Weekly
- Inspections should be documented

Satellite Accumulation Areas

- Satellite Accumulation Area (SAA) requirements
 - At or near any point of generation
 - Under the control of operator of process generating waste
 - Only containers can be used
 - Limit of 55 gallons (1 qt for acute or extremely hazardous waste)
 - Incompatible wastes cannot be placed in same container
 - Incompatible waste must be separated



Satellite Accumulation Areas

- SAA requirements (continued)
 - Must meet all container management standards
 - Except weekly inspections not required
 - Hazardous Waste accumulated at a SAA can be stored on-site for no more than one year
 - Hazardous waste must be moved to CAA within three days



Contaminated Containers (> 5 gallons)

- Containers must be:
 - Empty no continuous stream for liquids
 - Marked "EMPTY" (BMP)
 - Marked with the date they became empty
 - Stored on-site no more than one year
 - Recycled
 - Recycle records kept for three years



Contaminated Containers (< 5 gallons)

- Containers that are 5 gallons or less and empty can be managed as municipal waste (trash)
- Do not dry containers; this may be considered treatment



Spent Lead-Acid Storage Batteries

- Management of batteries:
 - Stored upright on a pallet on a sealed surface
 - Stored to prevent the terminals from short circuiting
 - Stored on-site no more than one year (365 days; 180 days if > a ton) and marked with out-of-service date
- Recycle records are to be kept for three years



Universal Waste

- Examples of universal waste
 - Spent batteries
 - Spent lamps
 - Electronic devices (e-waste)
 - Mercury-containing devices
 - Aerosol cans (non-empty)
 - End-of-life solar panels



Universal Waste

- Must be kept in a closed container that is compatible with the waste
- Labeled
 - "UNIVERSAL WASTE"
 - Type of waste (e.g., "Waste Lamps", "Used Batteries", "Waste Aerosols")
 - Accumulation start date
- Stored on-site for no more than one year
- Tracking records kept for all off-site shipments



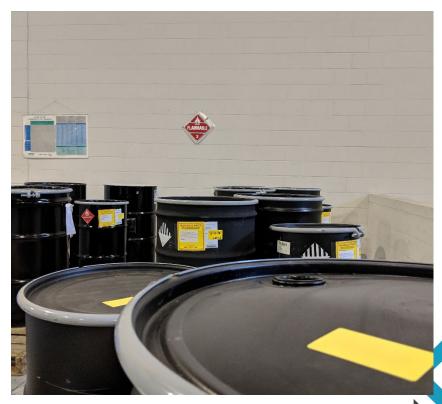
Drained Used Oil Filters & Fuel Filters

- Filters must be:
 - Drained (no free-flowing liquid)
 - Stored in a rainproof and closed container
 - Labeled "Drained Used Oil Filters" or "Drained Used Fuel Filters" with an accumulation start date
 - Stored on-site no more than one year (365 days; 180 days if > a ton)
- Recycle records are to be kept for three years



Maintenance & Operation

- Facilities must be
 - Maintained and operated to minimize the possibility of a fire, explosion, or any unplanned sudden or nonsudden release of hazardous waste
 - Minor, Class II, & Class I violations
 - Up to \$70,000/per violation, per day for non-compliance



Container Condition & Closure



Damaged & Open Container





Hazardous waste label not visible

Hazardous Property

| | HAZARDOUS WASTE STATE & FEDERAL LAW PROHIBITS IMPROPER DISPOSAL ENVIRONMENTAL PROTECTION AGENCY OR THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL GENERATOR INFORMATION: NAME STREET AT THE |
|---|--|
| | NAME SNAMFOCK MUCHO ADDRESS # ## Lucky Ln St ## CITY Shamfock STATE CH ZIP 95### TRACKING NO. EPA WASTE NO(S) DOOG EPA ID NO. CONTENTS, COMPOSITION: Melad dust would, Choniumy |
| | PHYSICAL STATE: ASOLID |
| 4 | COMPLETE HANDLE WITH CARE! THAN POWER LABOR TO THE CONTAINS HAZARDOUS OR TOXIC WASTES PRINTED BY: MESA LABEL EXPRESS, INC. POWAY, CA [ISS] (858) 668-2830 PAX: (858) 669-2839 WWW.MASTESS |



Lack of aisle space



Failure to maintain & operate facility to minimize possibility of a fire, explosion, or release



- Hazardous waste must be profiled for disposal and transported
 - By a registered hazardous waste transporter
 - Using a Uniform Hazardous Waste Manifest
 - To a permitted facility



Exceptions

Universal Wastes

Used Oil

Hazardous Waste Generated by VSQGs

- EPA form 8700-22 is the only manifest form that can be used
- Federal instructions included on the back of the manifest form

| Pk | ase | print or type. | | | | | Form | Approved. OMB No. 2050-0039 | | | | |
|-----------|--|---|--|---|---|-----------------------|----------------------|-----------------------------|--|--|--|--|
| Ī | | INIFORM HAZARDOUS | 1. Generator ID | 2. Page 1 of | 3. Emergency Response Phone | 4. Manifest | Tracking Nu | | | | | |
| П | L | WASTE MANIFEST | Number | | | | | | | | | |
| Ш | 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) | | | | | | | | | | | |
| П | II | | | | | | | | | | | |
| П | L | Generator's Phone: | | | | | | | | | | |
| Ш | 6 | Transporter 1 Company Nan | me | | | U.S. EPA ID | Number | | | | | |
| Ш | L | | | | | | | | | | | |
| Ш | 7. | Transporter 2 Company Nan | me | | | U.S. EPAID | Number | | | | | |
| Ш | 8 | Designated Facility Name ar | nd Site Address | | | U.S. EPA ID | Number | | | | | |
| П | ı | | | | | | | | | | | |
| Ш | ı | | | | | | | | | | | |
| П | F | acility's Phone: | | | | | | | | | | |
| Ш | | Ba. 9b. U.S. DOT Descripti M and Packing Group (if: | tion (including Proper Shipping Name, Hazard Class, ID No 'arryl) | umber, | 10. Containers No. Type | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes | | | | |
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| Ш | 1 | Special Handling Instruction | ns and Additional Information | | | | | | | | | |
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| Ш | ı | | | | | | | | | | | |
| Ш | 15 | GENERATOR'S/OFFERO | OR'S CERTIFICATION: I hereby declare that the contents | of this consignment ar | e fully and accurately described above b | y the proper ship | ping name, an | d are classified, packaged, | | | | |
| Ш | ı | marked and labeled/placa Exporter, I certify that the | arded, and are in all respects in proper condition for transpo contents of this consignment conform to the terms of the a | ort according to applica ttached EPAAcknowle | ible international and national governme rigment of Consent. | ntal regulations. If | export shipm | ent and I am the Primary | | | | |
| Ш | | I certify that the waste min enerator's/Offeror's Printed/Typ | nimization statement identified in 40 CFR 262 27 (a) (f I am | | rator) or (b) (if I am a small quantity gene nature | rator) is true. | | Month Day Year | | | | |
| Ц | ľ | oncide a concident in the ry | , contains | 1 | , Line C | | | 1 1 1 | | | | |
| Ę | 11 | 6. International Shipments | Import to U.S. | Export from U | J.S. Port of entry/exit | | | | | | | |
| _ | | ransporter signature (for expo | orts only): | | Date leaving U.S.: | | | | | | | |
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| П | ı | | | | Manifest Reference Number: | | | | | | | |
| È | 11 | 3b. Alternate Facility (or Gener | erator) | | | U.S. EPAID | Number | | | | | |
| FACII ITY | 1 | | | | | | | | | | | |
| FOF | | acility's Phone: 3c. Signature of Alternate Faci | sility (or Generator) | | | | | Month Day Year | | | | |
| IFA | | | • | | | | | | | | | |
| DESIGNAT | 19 | 9. Hazardous Waste Report M | lanagement Method Codes (i.e., codes for hazardous was | ste treatment, disposal, | and recycling systems) | | | | | | | |
| 卢 | 1. | | 2 | 3. | | 4. | | | | | | |
| [] | 2 | Decimated Facility Owner | or Operator: Certification of receipt of hazardous materials | covered by the provide | ot except as noted in Item 18a | | | | | | | |
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- California has supplemental manifest instructions that include:
 - Submittal requirements
 - California waste codes
 - Hazardous waste management method codes

California Environmental Protection Agency

Department of Toxic Substances Control

Supplemental California Manifest Instructions

Revised June 2007

Federal and State hazardous waste manifest regulations changed on September 5, 2006.

Detailed manifest instructions are printed on the back of the new federal manifest. These Supplemental California Instructions cover additional California requirements. Please use the instructions printed on the new manifest for item by item directions. Materials are variable at waydisc.ea.gov (under ID numbers, Manifests & Fees, Hazardous Walset Manifests), Including fact sheets California's manifest regulations, sample manifests, and federal instructions. For load rejections and consolidated manifesting, refer to the regulations and fer sheets.

IMPORTANT MANIFEST CHANGES - PLEASE READ AND SAVE AS A REFERENCE

The U.S. Environmental Protection Agency (EPA) revised the Uniform Hazardous Waste Manifest and requires the use of only the new version nationally after September 4, 2006. States are no longer allowed to modify the form or the instructions. Old versions of the California manifest, or manifests from other states, may not be used after September 4, 2006. The new manifest from is no longer color coded, and the new six-part form does not include a copy for generators to submit to their state, although California requires the generator to submit a copy.

Additional Information and Instruction Changes:

- Adds space for emergency
- response number;

 Adds Generator's site address;
- Allows up to six waste codes for each waste stream:
- Adds a box to indicate if waste stream is U.S. DOT regulated:
- Adds space for import/export
- Adds room for destination facilities to note discrepancies or if container residues exceed empty levels:
- Adds a new field for a manifest reference number when waste is rejected or if container residues are shipped on a new manifest;
- are shipped on a new manifest;
 Adds a separate field for alternative facility information an
- Uses HW Report Management Codes to replace handling codes;
- Prohibits the use of fractions or decimal points in waste quantities in Item 10: and
- Discourages use of large quantity units in Item 11 (e.g. tons or cubic yards) when other units, i.e. pounds, are more accurate.

Where Do I Get Manifests?

California does not sell the new manifest forms. Forms are available only from private printers approved by EPA. EPA posts approved printers at www.epa.gov/epasswer/haz-waste/gener/manifest/registry/lindex.htm.

Generators Must Submit Manifest Copies!

California requires generators and permitted transfer, treatment, storage, and disposal Facilities (Facilities) to submit manifests. The federal manifest form does not incide a Generator-to-State submittal pope, like the old manifest storing manifests. The federal manifest form does not incide a Generator-to-State submittal pope, like the old manifest storing to the old manifest storing to the storing the pope. Whitin 30 days of shipping the waste, generators must submit a copy of each manifest to DTSC. This copy can either be a leasible protocopy or the "Generator Relataris", once of the storing to the storing the storing

What About Submitting Manifests for Rejected Loads?

Generators should send copies of manifests they sign when receiving rejected waste or container residues to the Department of Toxic Substances Controls (DTSC) Facility Manifests at P.O. Box 3000. Facilities signing new manifests for rejected loads should submit the generator copy to DTSC Generator Manifests at P.O. Box 400. See the rejected load fact sheet on DTSC's web site.

How Are California Manifest Requirements Different from Federal?

- California requires conditionally exempt small quantity generators to use manifests and regulates more
 waste as bazardous
- DTSC uses the submitted generator and facility manifest copies for cradle-to-grave tracking of waste.
- California's definition of an "empty" container is more stringent. Non-empty containers must be manifested, including bulk containers, whether the waste is federal RCRA or non-RCRA.
- Facilities in other states are required to submit copies to DTSC when waste generated in California is received out of state. Out-of-state generators sending waste to California facilities, or that will be exported through California are encouraged to submit manifest copies.

Where Do I Mail Manifests? Same P.O. Boxes - No Change GENERATORS SEND TO:

DTSC Generator Manifests P.O. Box 400 Sacramento, CA 95812-0400

TSDFs/DESIGNATED

FACILITIES SEND TO

DTSC Facility Manifests P.O. Box 3000 Sacramento, CA 95812-3000

Where Do I Find California Waste Codes?

The new manifest has six blank boxes for waste codes for each waste stream.

If the waste is RCRA regulated, at least one box must include a RCRA waste code. For waste generated in or shipped to California, a CA state waste code is also required. The additional boxes are for other states'

If the waste is RCMC regulated, at least one box must include a RCMC waste code. For waste generated or of shipped to California, a CA state waste code is also required. The additional boxes are for other states' codes when the waste is sent out of state to a state with codes, or for extra RCPA codes. California Waste Codes are printed on the reverse side of these instructions only, not on the instructions printed when manifest. They are also found in Title 22, California Code of Regulations, Appendix XIII to Chapter 11 of Division 4.5.

What are Hazardous Waste Report Management Method Codes (HWRMM

Previously, California's manifest instructions required Designated Facilities to use one of 10 handling godes to report how the work was handled at that facility. The new manifest uses 28 Management Method Codes. These are the same codes used in Biennial Reports. One of the WIVRBMM codes shown on the other side must be added on the manifest by the Facilities only. Generators and transporters do not add these codes.

Contact Information:

First, visit the DTSC web page at <a href="https://www.dtsc.ca.gov/IDManifest for training information and review the basic instructions printed on the manifest. This document includes Supplemental Instructions only for use in California. For more information, contact your transporter or facility, or call DTSC's Regulatory Assistance Officer at 800-72-TOXIC.

- Generator is responsible for information in boxes 1 – 15
- Box 16 is for international shipments
- Box 17 is for transporter's acknowledgement of receipt
- Boxes 18 20 are to be completed by designated facility (TSDF)

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- Uniform Hazardous Waste Manifest
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 - Within 30 days of receipt
 - Page 2 TSDF signed copy
 - Within 35 days of shipment
 - Page 3 TSDF copy
 - Page 4 Transporter copy
 - Page 5 Generator initial copy
 - Copy to DTSC within 30 days of shipment

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Consolidated Manifest

- Manifest used by a consolidated transporter to combine HW shipments from multiple generators (can only combine same wastes)
- Placed on one manifest per HSC 25160.2
 - Quantities based on combined receipts
- Both generator and transporter section of manifest identify consolidated transporter's name, ID numbers, and address

Consolidated Manifest

Receipts

- Legible receipts attached for each pickup with the manifest
- Receipts must be signed by transporter & generator
- Copy of receipts must be left with the generator
- Receipts retained by generator for three years from date of shipment

- Receipt contents:
 - Name, address, EPA ID #, contact person name and phone #, and generator signature
 - Date of shipment
 - Manifest tracking number
 - Volume/quantity of each waste
 - CA waste codes
 - Eligible waste type
 - Proper shipping description

Consolidated Manifest – Authorized Waste Streams

- Used oil
- Contents of an oil/water separator
- Solids contaminated with used oil
- Brake fluid
- Antifreeze
- Antifreeze sludge
- Parts-cleaning solvents
- Asbestos & asbestos-containing materials
- Inks from the printing industry
- Chemicals and laboratory packs collected from K-12 schools
- Filters from dispensing pumps for diesel and gasoline fuels

- Hydroxide sludge (contaminated solely with metal from wastewater treatment process)
- Paint-related wastes, including paints, thinners, filters, and sludge
- Spent photographic solution
- Dry cleaning solvents including perchloroethylene, naphtha, and silicone-based solvents
- Filters, lint, and sludge contaminated with dry cleaning solvent
- Retail hazardous waste collected from retailers
- Absorbents contaminated with wastes on this list

Summary

- CUPA will inspect facilities with HMBPs every three years
- Penalties for non-compliance
 - Up to \$70,000 per violation per day
- Facility must be maintained and operated to prevent incident or spill
- Hazardous waste cannot be treated on-site (unless authorized or permitted)
- Hazardous waste cannot be thrown in the trash or discharged to the sewer

- Hazardous wastes cannot be accumulated on-site at the CAA for more than 90/180 days
- Hazardous wastes cannot be accumulated on-site at the SAA for more than one year
- Universal waste cannot be accumulated on-site for more than one year
- Hazardous wastes can only be transported by a registered hazardous waste transporter

THANK YOU!



Contact Us at:

NES-EHS.com



916.353.2360

1.800.637.2384