Managing Hazardous Waste

A HANDBOOK FOR SMALL BUSINESSES



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

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NTRODUCTION

This handbook has been prepared by the Hazardous Waste Section of the Arizona Department of Environmental Quality (ADEQ) to help small business owners and operators understand how to best comply with federal hazardous waste management regulations, as well as Arizona hazardous waste rules and statutes. This handbook is intended as an overview and summary of the regulations and statutes to give you a basic understanding of your responsibilities in managing your hazardous waste activities. It is not to be used as a substitute for the actual regulations.

Much of the material in this handbook is reprinted from the Environmental Protection Agency's (EPA) handbook entitled, *Understanding the Hazardous Waste Rules—A Handbook for Small Business*. EPA's handbook is augmented by material pertaining to hazardous waste management requirements peculiar to Arizona rules and statutes. Arizona incorporates most of the federal hazardous waste regulations by reference; therefore, Arizona's hazardous waste rules are similar and consistent with the federal hazardous waste regulations.

All of the federal hazardous waste regulations are located in Title 40 of the Code of Federal Regulations (CFR), Parts 260 to 299 which are incorporated by Arizona Administrative Codes (AAC) R18-8-260 to 280. State regulations are located in Arizona Revised Statutes 49-901 through 49-944.

Pederal and state rules define three categories of hazardous waste generators based upon the quantity of hazardous waste they generate in any calendar month:

- 1. Conditionally exempt small quantity generators (CESQGs) that generate less than 220 lb (100 kg) in any calendar month.
- 2. Small quantity generators (SQGs) that generate between 220 lb (100 kg) and 2,200 lb (1,000 kg) in any calendar month.
- 3. Large quantity generators (LQGs) that generate more than 2,200 lb (1,000 kg) or more than 2.2 lb (1 kg) of *acutely* hazardous waste in any calendar month or 220 lb (100 kg) acute spill residue.

Each category of generator must comply with the hazardous waste rules specific to that category. This handbook is intended primarily for businesses that generate small quantities of hazardous waste (SQGs and CESQGs) to help them learn about regulations that apply.

FOR MORE INFORMATION

If you have questions about any part of this document or the federal hazardous waste regulations pertaining to Arizona, call the Hazardous Waste Inspections & Compliance Unit at (602) 771-4108 or (800) 234-5677.

TIP

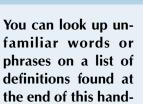


Whenever you consult a federal hazardous waste regulation to determine the regulations that apply to the waste you are managing, you must also consult the Arizona hazardous waste statutes and rules to determine if any additional and/ or different standards also apply. Proper management of hazardous waste is important to safeguard human health and the environment.





book.



DECIDING WHETHER HAZARDOUS WASTE REGULATIONS APPLY TO YOU

Federal and state hazardous waste management regulations apply to most businesses that generate hazardous waste. To determine if these regulations apply to your business, you must first determine if you even generate hazardous waste.

DEFINING HAZARDOUS WASTE

A *waste* is any solid, liquid, or contained gaseous material that is discarded by being disposed of,

- ✓ First, determine if you generate hazardous waste.
- ✓ Measure the amount of hazardous waste that you produce per month.
- ✓ Determine your generator category to learn the management requirements that apply to you.

burned or incinerated, or recycled. (There are some exceptions for recycled materials.) It can be the byproduct of a manufacturing process or simply a commercial product that you use in your business—such as a cleaning fluid or battery acid—that is being disposed. Even

materials that are recyclable or can be reused in some way—such as burning used oil for fuel—may be considered waste. Hazardous waste can be one of two types:

■Listed waste

Your waste is considered hazardous if it appears on one of four lists published in 40 CFR Part 261 (as incorporated by AAC R18-8-261) and is not otherwise excluded. Currently, more than 400 wastes are listed. Wastes are listed as hazardous because they are known to be harmful to human health and the environment when not managed properly.

TIP



One way to help determine if your waste exhibits a characteristic is to check the Material Safety Data Sheet (MSDS) that comes with all products containing hazardous materials. In addition, your national trade association or its local chapter might be able to help you.

Acutely hazardous wastes are listed wastes that even when managed properly are extremely dangerous. Examples of acutely hazardous wastes include wastes generated from some pesticides that can be

fatal to humans even in low doses. P listed and F020, F021, F022, F023, F026, and F027 are examples of acutely hazardous wastes.

■Characteristic waste

If your waste does not appear on one of the hazardous waste lists, it still might be considered hazardous if it demonstrates one or more of the following characteristics:

- ▲It catches fire under certain conditions. This is known as an *ignitable* waste. Examples are paints and certain degreasers and solvents.
- ▲It corrodes metals or has a very high or very low pH. This is known as a *corrosive* waste. Examples are rust removers, acid or alkaline cleaning fluids, and battery acid.
- ▲It is unstable and explodes or produces toxic fumes, gases, and vapors when mixed with water or under other conditions, such as heat or pressure. This is known as a *reactive* waste. Examples are certain cyanides or sulfidebearing wastes.
- ▲It is harmful or fatal when ingested or absorbed, or it leaches toxic chemicals into the soil or ground water when disposed of on land. This is known as a *toxic* waste. Examples are wastes that contain high concentrations of heavy metals, such as cadmium, lead, or mercury.

Additionally, a mixture of hazardous waste with solid waste (e.g., motor oil, trash, debris) may become a hazardous waste.

You can determine if your waste is toxic by having it tested using the Toxicity Characteristic Leaching Procedure (TCLP), or by simply knowing that your waste is hazardous or that your processes generate hazardous waste (called *generator knowledge*). However, you must have written documentation if using generator knowledge for both hazardous and non-hazardous waste.

IDENTIFYING YOUR WASTE

To help you identify some of the waste streams common to your business, consult the table below to find a list of typical hazardous wastes generated by small businesses. Use the *EPA Hazardous Waste Codes for Waste Streams Commonly Generated by Small Quantity Generators* list located in the center of this handbook for a more detailed listing of the EPA waste codes associated with these waste streams to determine

if your waste is hazardous. Commercial chemical products that are discarded might also become hazardous waste. For a complete listing of hazardous waste codes, consult 40 CFR Part 261 (as incorporated by R-18-8-261).

If your waste is hazardous, you will need to manage it according to appropriate federal and state hazardous waste regulations.

Type of Business	How Generated	Types of Wastes	Waste Codes
Dry Cleaning and Laundry Plants	Commercial dry cleaning processes	Still residues from solvent distillation, spent filter cartridges, cooked powder residue	D001, D039, F002
Furniture/Wood Manufacturing and Refinishing	Wood cleaning and wax removal, refinishing/ stripping, staining, painting, finishing, brush cleaning, and spray brush cleaning	Ignitable wastes, toxic wastes, solvent wastes, paint wastes	D001, F001- F005
Construction	Paint preparation and painting, carpentry and floor work, other specialty contracting activities, heavy construction, wrecking and demolition, vehicle and equipment maintenance for construction activities	Ignitable wastes, toxic wastes, solvent wastes, paint wastes, used oil, acids/bases	D001, D002, F001-F005
Laboratories	Diagnostic and other laboratory testing	Spent solvents, unused reagents, reaction products, testing samples, contaminated materials	D001, D002, D003, F001- F005, U211
Vehicle Maintenance	Degreasing, rust removal, paint preparation, spray booth, spray guns, brush cleaning, paint removal, tank cleanout, installing leadacid batteries	Acids/bases, solvents, ignitable wastes, toxic wastes, paint wastes, batteries	D001, D002, D006, D008, F001-F005
Printing and Allied Industries	Plate preparation, stencil preparation for screen printing, photo processing, printing, cleanup	Acids/bases, heavy metal wastes, solvents, toxic wastes, ink	D002, D006, D008, F001- F005
Equipment Repair	Degreasing, equipment cleaning, rust removal, paint preparation, painting, paint removal, spray booth, spray guns, and brush cleaning	Acids/bases, toxic wastes, ignitable wastes, paint wastes, solvents	D001, D002, D006, D008, F001-F005
Pesticide End- Users/Application Services	Pesticide application and cleanup	Used/unused pesticides, solvent wastes, ignitable wastes, contaminated soil (from spills), contaminated rinsewater, empty containers	D001, F001- F005, U129, U136, P094, P123
Educational and Vocational Shops	Automobile engine and body repair, metal- working, graphic arts—plate preparation, woodworking	Ignitable wastes, solvent wastes, acids/bases, paint wastes	D001, D002, F001-F005

FINDING YOUR GENERATOR CATEGORY

Once you know that you generate hazardous waste, you need to measure the amount of waste you produce each calendar month. The amount of hazardous waste you generate in a calendar month determines your generator category.

Many hazardous wastes are liquids and are measured in gallons—not pounds. In order to measure your liquid wastes, you will need to convert from gallons to pounds. To do this, you must know the density of the liquid. A rough

WHAT IS YOUR GENERATOR CATEGORY?

For waste management purposes, depending on your type of business, you might be regulated under different rules at different times. If, for example, you generate less than 220 lb (100 kg) of hazardous waste during the month of June, you would be considered a CESQG for June and your June waste would be subject to the hazardous waste management requirements for CESQGs. If, in July, you generate between 220 and 2,200 lb (100 to 1,000 kg) of hazardous waste, your generator status would change, and you would be considered an SQG for July. Your July waste and facility would then be subject to the management requirements for SQGs.

For annual registration fee purposes, your fee is based on the maximum amount generated in any one month of the previous year. Use your monthly generation amounts to determine your registration status, not your annual generation total. You are an SQG if you have generated 220 lb (100 kg) or more but less than 2,200 lb (1000 kg) of hazardous waste in any calendar month of the previous year. If this is the case, you are required to pay an annual registration fee of \$100. If you have generated less than 220 lb (100 kg) of hazardous waste in any calendar month of the previous year, you are a CESQG and do not have an annual registration fee. See Appendix C, Hazardous Waste Facility Annual Report for CESQGs.

GENERATION FEES

For generation fees, SQGs are invoiced annually. The fee is \$10 per ton unless the facility has a Certified Pollution Prevention Plan; then it is \$5 per ton.

guide is that 30 gallons (about half of a 55-gallon drum) of waste with a density similar to water weighs about 220 lb (100 kg); 300 gallons of a waste with a density similar to water weighs about 2,200 lb (1,000 kg).

EPA has established three generator categories, each of which is regulated differently:

CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS (CESQGS)

You are considered a CESQG if you generate no more than 220 lb (100 kg) of hazardous waste in any calendar month and do not accumulate over 2,200 lb (1,000 kg). You are exempt from hazardous waste management regulations provided that you comply with the basic requirements described on page 7.

SMALL QUANTITY GENERATORS (SQGs)

You are considered an SQG if you generate between 220 and 2,200 lb (100 and 1,000 kg) of hazardous waste in any calendar month and do not accumulate over 13,228 lb (6,000 kg). SQGs must comply with federal and state requirements for managing hazardous waste described in this handbook.

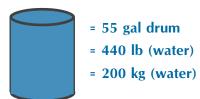
LARGE QUANTITY GENERATORS (LQGs)

You are considered an LQG if you generate more than 2,200 lb (1,000 kg) of hazardous waste in any calendar month. LQGs must comply with more extensive hazardous waste rules than those summarized in this handbook. See page 23 for an overview.

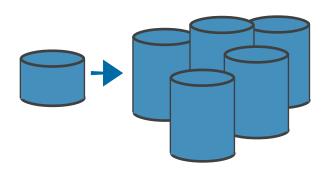
Note: If any generator generates or accumulates more than 2.2 lb (1 kg) of acutely hazardous waste in a calendar month or 220 lb (100 kg) acute spill residue, all of the acutely hazardous waste must be managed according to the regulations applicable to LQGs.

How Many Drums Is That?

KEY:



SMALL QUANTITY GENERATOR (SQG)



CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (CESQG)

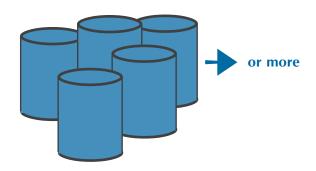


Per calendar month

1/2 to 5 drums or 27 to 275 gal or 220 to 2,200 lb or 100 to 1,000 kg

Per calendar month

LARGE QUANTITY GENERATOR (LQG)



>5 drums or

>275 gal or

>2,200 lb or

>1,000

Per calendar month

TIP



Note: This page is for guidance purposes only. Not all chemicals have the same density. This chart shows different weights per gallon and per drum.

Substance	LB PER GAL	LB PER DRUM
Water	8.340	458.7
Lead	94.659	5,206.25
Methylene chloride	11.134	612.37
Acetone	6.605	363.275

WHAT DO YOU MEASURE TO DETERMINE YOUR GENERATOR CATEGORY?

DO MEASURE:

For your monthly total, all quantities of listed and characteristic hazardous wastes that are:

- ✓ Accumulated on the property for any period of time before disposal or recycling. (Dry cleaners, for example, must count any residue removed from machines, as well as spent cartridge filters.)
- Packaged and transported away from your business.
- ✓ Placed directly in a regulated treatment or disposal unit at your place of business.
- ✓ Generated as still bottoms or sludges and removed from product storage tanks.

DO NOT MEASURE:

Wastes that:

- ✓ Might be left in the bottom of containers that have been thoroughly emptied through conventional means such as pouring or pumping.
- ✓ Are left as residue in the bottom of tanks storing products, if the residue is not removed from the product tank.
- ✓ Are reclaimed continuously on-site without storing prior to reclamation, such as dry cleaning solvents.
- Are managed in an elementary neutralization unit, a totally enclosed treatment unit, or a wastewater treatment facility without being stored first. (See definitions at the end of this handbook for an explanation of these types of units.)

✓ Are discharged directly to publicly owned treatment works (POTWs) without being stored or accumulated first. This discharge to a POTW must comply with the Clean Water Act. POTWs are public utilities, usually owned by the city, county, or state that treat industrial and domestic sewage for disposal.

- ✓ Have already been counted once during the calendar month, and are treated on-site or reclaimed in some manner, and used again.
- ✓ Are regulated under the universal waste rule or have other special requirements. The federal regulations contain special, limited requirements for managing certain commonly generated wastes. These wastes can be managed following the less burdensome requirements listed below instead of the usual hazardous waste requirements.

Used oil—40 CFR Part 279 (as incorporated by ARS 49-801-818).

Lead-acid batteries that are reclaimed—40 CFR Part 266, Subpart G (as incorporated by R-18-8-266).

Scrap metal that is recycled—40 CFR 261.6 (a)(3) (as incorporated by R-18-8-261).

Universal wastes (e.g., certain batteries, recalled and cancelled pesticides, mercury-containing thermostats, and mercury-containing waste lamps)—40 CFR Part 273 (as incorporated by R-18-8-273).

Don't mix incompatible wastes.



Requirements for Conditionally Exempt Small Quantity Generators

If you generate no more than 220 lb (100 kg) of hazardous waste in any month, you are a conditionally exempt small quantity generator (CESQG). You must comply with three basic waste management requirements to remain exempt from the full hazardous waste regulations that apply to generators of larger quantities (SQGs and LQGs). Note: There are different quantity limits for acutely hazardous waste.

Pirst, you must identify all hazardous waste that you generate and keep documentation of your waste determination. Second, you may not store more than 2,200 lb (1,000 kg) of hazardous waste on-site at any time. Finally, you must ensure delivery of your hazardous waste to an off site treatment or disposal facility that is one of the following:

An Arizona- or federally-regulated hazardous waste management treatment, storage, or disposal facility (TSDF).

- ✓ Identify your hazardous waste.
- **✓**Comply with storage quantity limits.
- ✓Ensure proper treatment and disposal of your waste.

- A facility permitted, licensed, or registered by Arizona to manage municipal or industrial solid waste.
- A facility that uses, reuses, or legitimately recycles the waste (or treats the waste prior to use, reuse, or recycling).
- A universal waste handler or destination facility subject to the universal waste requirements of 40 CFR Part 273 (as incorporated by R18-8-273) *if* your waste is universal waste. Universal wastes are wastes such as certain batteries, recalled and banned pesticides, or mercury-containing thermostats. Note: In Arizona, mercury-containing waste lamps are considered universal waste and should be managed in accordance with R18-8-273.
- Or, if you treat or dispose of your hazardous waste on-site, your facility also must also meet the above definitions.

Good housekeeping procedures can save money.



TIP



CESQGs with EPA identification numbers must complete a Facility Annual Report yearly. See Appendix C.

REQUIREMENTS FOR SMALL QUANTITY GENERATORS

OBTAINING AN EPA IDENTIFICATION NUMBER

If your business generates between 220 lb (100 kg) and 2,200 lb (1,000 kg) of hazardous waste in any calendar month, you are a small quantity generator (SQG), and must obtain and use an EPA Identification (ID) Number. EPA and all states use these 12-character numbers to monitor and track hazardous waste activities. You will need to use your identification number when you send waste off-site to be managed.

To obtain an EPA ID number:

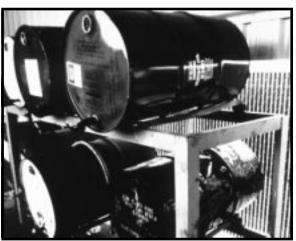
- ■Visit the EPA Web site http://www.epa.gov/ epaoswer/hazwaste/data/form8700/8700-12.pdf or ADEQ's Web site at www.adeq.state.az.us, click on environmental programs>waste programs>haz waste>permits unit>permits documents download>EPA form 8700-12.
- Call ADEQ at (602) 771-4147 or write to ADEQ, Hazardous Waste Section, Facility Assistance Unit, 1110 W. Washington St., Phoenix, Arizona, 85007, and request a copy of EPA Form 8700-12, Rev 5/2002, *Notification of Regulated Waste Activity*. You will be sent a booklet that contains a form with instructions. A sample copy of a completed notification form is shown on pages 9 and 10.
- Fill in the form as shown in the example. To complete Item IX of the form, you will need to identify your hazardous waste by its EPA Hazardous Waste Code. A list of common hazardous wastes and their waste codes can be found in the center of this document; for a complete list of waste codes, you should consult 40 CFR Part 261 (as incorporated by R18-8-261). Complete one copy of the form for each business site where you generate or handle hazardous waste. Each site will receive its own EPA ID number. Make sure you sign the certification in Item X.
- Send the completed form to the ADEQ hazardous waste contact. This address is listed in the information booklet that you will receive with the form.

- ✓ Call ADEQ to determine if you need an EPA ID number.
- ✓If you do, obtain a copy of EPA Form 8700-12.
- **✓**Fill in the form completely.
- ✓ Send the form to the ADEQ Notification Coordinator.

ADEQ records the information on the form and assigns an EPA ID number to the site identified on your form. The EPA ID number stays with the property when ownership changes. If you move your business, you must notify ADEQ of your new location and submit a new form. If another business previously handled hazardous waste at this location and obtained an EPA ID number, you will be assigned the same number after you have notified ADEQ that you have moved to this location. Otherwise, ADEQ will assign you a new identification number. You must also deactivate the old EPA ID number. To deactivate an EPA ID number, submit on company letterhead the facility name, ID number, reason for deactivation, and the date of deactivation, and mail to ADEO at the above address.

A revised 8700-12 must be submitted to ADEQ if ownership changes, generator status changes, or the type of waste generated changes.

Treat your hazardous materials with care so they don't become hazardous waste.



			OMB#: 2050-0175 Expires 12/31/2003		
MAIL THE COMPLETED FORM TO: The Appropriate State or EPA Regional Office.	United States Environmental Prot RCRA SUBTITLE C SITE IDEN*				
Reason for Submittal	Reason for Submittal:				
(See instructions on page 23)	☐ To provide Initial Notification of Regulated Waste Act waste, or used oil activities).	ivity (to obtain	an EPA ID Number for hazardous waste, universal		
MARK CORRECT BOX(ES)	☐ To provide Subsequent Notification of Regulated Wa	ste Activity (to	update site identification information).		
	☐ As a component of a First RCRA Hazardous Waste F				
		☑ As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment #). ☑ As a component of the Hazardous Waste Report.			
	EDA ID Number				
Site EPA ID Number (See instructions on page 24)	EPA ID Number:				
3. Site Name (See instructions on page 24)	Name:				
4. Site Location	Street Address:				
Information (See instructions on page 24)	City, Town, or Village:		State:		
	County Name:		Zip Code:		
5. Site Land Type (See instructions on page 24)	Site Land Type: LI Private County Ci District	🖺 Federal	☐ Indian ☐ Municipal ☐ State ☐ Other		
6. North American Industry Classification System (NAICS) Code(s) for the	А, В.				
Site (See instructions on page 24)	C.	D.			
7. Site Mailing Address (See instructions on page	Street or P. O. Box:				
25)	City, Town, or Village:				
	State:				
	Country:		Zip Code:		
8. Site Contact Person (See instructions on page 25)	First Name:	MI:	Last Name:		
	Phone Number:		Phone Number Extension:		
9. Legal Owner and Operator of the Site (See	A. Name of Site's Legal Owner: Date Became Owner (mm/dd/yyyy		Date Became Owner (mm/dd/yyyy):		
instructions on pages 25 to 26)	Owner Type: 🗓 Private 🗐 County 🚨 District] Federal 🗆	Indian ☐ Municipal ☐ State ☐ Other		
,	B. Name of Site's Operator:		Date Became Operator (mm/dd/yyyy):		
	Operator Type: U Private U County U District D Federal D Indian D Municipal D State D Other				
EPA Form 8700-12 (Revis	ed 5/2002) Page 1 of 3				

			EPA ID		75 Expires 12/31/2003]	
10. Type of Regulated Waste Activ	ity (Mark the appropriat	e boxes for activities th	nat apply to your site. S	iee instructions on pa	ges 26 to 30)	<u> </u>	
A. Hazardous Waste Activities							
 Generator of Hazardous War (Choose only one of the follow) 		.)	For Items 2 through				
☐ a. LQG: Greater than 1,00	00 kg/mo (2,200 lbs./mo.)) of non-acute	·	of Hazardous Waste			
hazardous waste; or	mo (220 - 2,200 lbs./mo.) of non-acute		er, or Disposer of Haz hazardous waste perm	ardous Waste (at your nit is required for this		
hazardous waste; or ☐ c. CESQG: Less than 100	kg/mo (220 lbs./mo.) of	non-acute hazardous		Hazardous Waste (at y aste permit may be requ			
waste			5. Exempt Boil	er and/or Industrial Fu	ırnace		
In addition, indicate other ge	enerator activities. (Mar	k all that apply)	□ a. Small 0	Quantity On-site Burner	Exemption		
d. United States Importer of	of Hazardous Waste		☐ b. Smeltin	g, Melting, and Refining	Furnace Exemption		
	s and radioactive) Gener	rator		d Injection Control			
Universal Waste Activities			C Used Oil Activities	(Mark all boxes that	annly)	 	
Large Quantity Handler of U	niversal Wasta (secum	ulata 5 000 ka ar					
more) [refer to your State re	gulations to determine	what is regulated).	i. Osed Oil 11a	msporter - Indicate Typ orter	pe(s) of Activity(les)		
Indicate types of universal wasite. (Mark all boxes that ap		accumulated at your	☐ b. Transfe				
,	Generate	Accumulate		cessor and/or Re-refi	ner - Indicate Type(s)		
a. Batteries		Ü	of Activity(ie	•			
b. Pesticides	<u></u>	J	☐ b. Re-refi				
c. Thermostats		_	☐ 3. Off-Specifica	ation Used Oil Burner			
d. Lamps	ш	i i	4. Used Oil Fue	el Marketer - Indicate 3	Type(s) of Activity(ies)		
e. Other (specify)			⊒ a. Market	er Who Directs Shipme	nt of Off-Specification		
f. Other (specify)		<u> </u>	Used C	il to Off-Specification U	Ised Oil Burner		
g. Other (specify)		<u> </u>	•				
☐ 2. Destination Facility for Un					EPA ID No.	OMB#: 2050-0175	Expires [2,3] 2
Note: A hazardous waste pe	P. Wasta Cadas fo	r State Begulated (i.e.	non-Federal) Hazardous	Wasten Glassa tiet the			
Description of Hazardous Wa			esented in the regulation				
Waste Codes for Federally Regi						T	
the order they are presented in th						-	
		-					
		1					
			ļ				
	12. Comments (See	instructions on page 3	1)				
			·				
N Form 8700-12 (Revised 5)	s, stem designed to a manage the system, true, accurate, and co	issure that qualified persi or those persons directly	w that this document and onnel properly gather and responsible for gathering there are significant pena ge 31)	evaluate the information the information, the information, the information is the information of the informa	n submitted. Based on m prmation submitted is, to	y inquiry of the pers the best of my know	son or persons who vledge and belief,
11 3111 3753 12 (11011000 0		ner, operator, or an representative		Name and Official Ti	itle (type or print)		Date Signed (mm/dd/yyyy)
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							L
	EPA Form 8700-1:	2 (Revised 5/2002)		Page 3 of 3			

Managing Hazardous Waste On-Site

Most small businesses accumulate some hazardous waste on-site for a short period of time and then ship it off-site to a treatment, storage, or disposal facility (TSDF).

ACCUMULATING YOUR WASTE

A ccumulating hazardous waste on-site can pose a threat to human health and the environment, so you may only keep it for a short time without a permit. Before shipping the waste for disposal or recycling, you are responsible for its safe management, which includes safe storage, safe treatment, preventing accidents, and responding to emergencies in accordance with federal and Arizona regulations.

SQGs can accumulate no more than 13,228 lb (6,000 kg) of hazardous waste on-site for up to 180 days without a permit. You can accumulate this amount of waste for up to 270 days if you must transport it more than 200 miles away for recovery, treatment, or disposal. Limited extensions may be granted by the ADEQ director. If you exceed these limits, you may be considered a TSDF and may be required to obtain an operating permit. Special storage requirements apply to liquid hazardous wastes containing polychlorinated biphenyls (PCBs).

SQGs must accumulate waste in tanks or containers, such as 55-gallon drums. Your storage tanks and containers must be managed according to the following summarized requirements.

For containers, you must:

- ✓ Accumulate wastes according to limits established for SQGs.
- ✓ Follow the storage and handling procedures required by federal and Arizona rules for SQGs.
- ✓ Follow requirements for equipment testing and maintenance, access to communications or alarms, aisle space, and emergency arrangements with local authorities as required by federal and Arizona rules.

- Label each container with the words *HAZARD-OUS WASTE*, and mark each container with the date waste was first added.
- ■Use a container made of, or lined with, a material that is compatible with the hazardous waste to be stored. (This will prevent the waste from reacting with or corroding the container.)
- Keep all containers holding hazardous waste closed during storage, except when adding or removing waste. Do not open, handle, or store (stack) containers in a way that might rupture them, cause them to leak, or otherwise fail.
- ■Inspect areas where containers are stored at least weekly. Look for leaks and for deterioration caused by corrosion or other factors.
- Maintain the containers in good condition. If a container leaks, put the hazardous waste in another container, or contain it in some other way that complies with EPA and state regulations.
- Do not mix incompatible wastes or materials unless precautions are taken to prevent certain hazards.

Properly store hazardous materials.



For tanks, you must:

- Label each tank with the words *HAZARDOUS WASTE*.
- Store only waste that will not cause the tank or the inner liner of the tank to rupture, leak, corrode, or fail.
- Equip tanks that have an automatic waste feed with a waste feed cutoff system or a bypass system for use in the event of a leak or overflow.
- Inspect discharge control and monitoring equipment and the level of waste in uncovered tanks at least once each operating day. Inspect the tanks and surrounding areas for leaks or other problems (such as corrosion) once each operating day.
- ■Use the National Fire Protection Association (NFPA) buffer zone requirements for covered tanks containing ignitable or reactive wastes. These requirements specify distances considered to be safe buffer zones for various ignitable or reactive wastes. You can reach the NFPA at (617) 770-3000.
- Do not mix incompatible wastes or materials unless precautions are taken to prevent certain hazards.
- ■Do not place ignitable or reactive wastes in tanks unless certain precautions are taken.
- Provide at least two feet (60 centimeters) of freeboard (space at the top of each tank) in uncovered tanks, unless the tank is equipped with a containment structure, a drainage control system, or a standby tank with adequate capacity.

Safely store hazardous wastes in suitable containers.

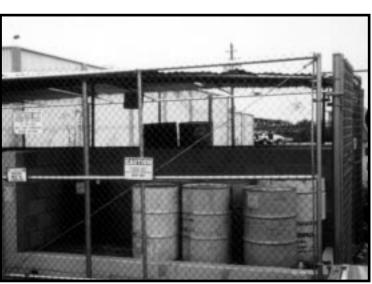
TREATING YOUR WASTE TO MEET THE LAND DISPOSAL RESTRICTIONS (LDRs)

ost hazardous wastes may not be land disposed unless they meet treatment standards. The Land Disposal Restrictions (LDR) program requires that the waste is treated to reduce the hazardous constituents to levels set by EPA, or that the waste is treated using a specific technology. It is your responsibility to ensure that your waste is treated to meet LDR treatment standards before it is land disposed. (See page 22 for a description of required LDR notices.) Most SQGs probably will have their designated TSDF do this treatment. If you choose to treat your waste yourself to meet LDR treatment standards, there are additional requirements, including waste analysis plans, notifications, and certifications. To learn about these requirements call the EPA RCRA Hotline (800) 424-9346, the ADEQ Inspections & Compliance Unit (602) 771-4108, or consult 40 CFR Part 268 (as incorporated by R18-8-268).

TIPS



- ✓It is good practice never to mix wastes. Mixing wastes can create an unsafe work environment and lead to complex and expensive cleanups and disposal.
- ✓Clean up spills and leaks quickly to avoid larger problems.



HAZARDOUS WASTE CODE CHART

PULL OUT AND POST FOR QUICK REFERENCE

SOLVENTS

Solvents, spent solvents, solvent mixtures, or solvent still bottoms hazardous solvents (also see ignitable wastes for other hazardous solvents, and 40 CFR 261.31 for most listed hazardous waste are often hazardous. The following are some commonly used Solvents):

Benzene	F005	Petroleum Solv	Sol
Carbon Disulfide	F005	(Flashpoint le	at le
Carbon Tetrachloride	F001	Pyridine	
Chlorobenzene	F002	1,1,1-Trichlord	nlorc
Cresols	F004	1,1,2-Trichlord	nlorc
Cresylic Acid	F004	Tetrachloroeth	oeth
O-Dichlorobenzene	F002	(Perchloroethy	ethy
Ethanol	D001	Toluene	
2-Ethoxyethanol	F005	Trichloroethyle	thyle
Ethylene Dichloride	D001	Trichlorofluore	luor
Isobutanol	F005	Trichlorotriflue	iflu
Isopropanol	D001	(Valclene)	
Kerosene	D001	White Spirits	its
Methyl Ethyl Ketone	F005		
Methylene Chloride	F001, F002		
Naphtha	D001		
Nitrobenzene	F004		
2-Nitrobenzene	F004		

F001, F002

oethylene

ofluoromethane F002

otrifluoroethane

D001

F002

F005

oroethylene) oroethylene

F001, F002

ichloroethane ichloroethane

F002

F005

oint less than 140°F)

im Solvents

F001, F002

ACIDS



Ammonium Hydroxide Oleum Hydrobromic Acid Hydrochloric Acid Hydrofluoric Acid Chromic Acid Acetic Acid

Nitric Acid

GNITABLE WASTES



any ignitable compressed gas as described in 49 CFR 173.300 (for a friction, absorption of moisture, or spontaneous chemical change, or 140°F, any non-liquids that are capable of causing a fire through Ignitable wastes are any liquids that have a flashpoint less than complete description of ignitable wastes, see 40 CFR 261.21).

Examples are spent solvents, solvent still bottoms, epoxy resins and adhesives, and waste inks containing flammable solvents. Unless otherwise specified, all ignitable wastes have the waste code D0

	Ethyl Benzene	Ethyl Ether	Ethylene Dichloride	Methanol	Methyl Isobutyl Ketone Petroleum Distillates	Xylene
o cura marca	F003	F005	F003	F002	F003	F003
ignitiants wastes mayo the waste code to	Acetone	Benzene	n-Butyl Alcohol	Chlorobenzene	Cyclohexanone	Ethyl Acetate

D001 F003 F003 D001 F003

003

EPA

AZARDOUS WASTE WASTE STREAMS CODES FOR

JENERATED BY SMALI GENERATORS **QUANTITY**

LEAD-ACID BATTERIES



lead-acid batteries that are recycled Used lead-acid batteries should be only if they are not recycled. Used reported on the notification form

generate in any month. Special requirements do apply if you recycle your batteries on your own determining the quantity of waste that you do not need to be counted in premises (see 40 CFR 266).

D008	D002	D008
Lead Dross	Spent Acids	Lead-Acid Batteries

PESTICIDES

COMMONIY



hazardous. Wastes marked with an asterisk (*) have been desig-The pesticides listed below are nated acutely hazardous. For a more complete listing, see 40

CFR 261.32 for specific listed pesticides, and other wastes, wastewaters, sludges, and byproducts from pesticide formulators.

Potassium Hydroxide Sodium Hydroxide Phosphoric Acid Perchloric Acid Sulfuric Acid

FILTRATION RESIDUES DRY CLEANING



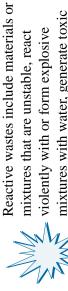
chloroethylene plants only), still ethylene or valclene are hazard-Cooked powder residue (perresidues, and spent cartridge filters containing perchloro-

residues containing petroleum solvents with a flashpoint less than 140°F are considered hazardous and have the waste code D001 ous and have the waste code F002. Still

categories, this list does not include waste codes comprehensive list of all waste codes and waste quantity generators to determine which of their wastes, if any, are hazardous, and to determine wastes, as well as all others not listed here, can be found in Title 40 of 40 CFR Part 261. If you streams that small businesses could generate. Except for the pesticide and wood preserving (602) 771-4108 or (800) 234-5677, the RCRA for commercial chemical products that are the EPA waste codes associated with each TDD (800) 533-7672 from other locations. hazardous when discarded unused. These This list can be used as a guide for small have any questions, contact ADEQ at waste. It is not intended to provide a Hotline at (800) 424-9346 or

U129 U084 P070 U011 P059 P089 P071 1,2-Dichloropropene Methyl Parathion* Heptachlor* Parathion* Aldicarb* Amitrole Phorate* Lindane

REACTIVES



gases or vapors when mixed with water (or when the case of cyanide or sulfide-bearing wastes), or mixtures with water, generate toxic exposed to pH conditions between 2 and 12.5 in when heated or subject to shock (for a complete are capable of detonation or explosive reaction description of reactive wastes, see 40 CFR

wastes have the waste code D003. The following 261.23). Unless otherwise specified, all reactive

HEAVY METALS/INORGANICS



CFR 262.24, Table 1. Materials may include dusts, solutions, wastehazardous if the extract from a representative sample of the waste Heavy metals and other inorganic waste materials are considered has any of the specific constituent concentrations as shown in 40

water treatment sludges, paint wastes, and waste inks. The following

are common heavy metals/inorganics:

Arsenic	D004	Lead	D008
Barium	D005	Mercury	D009
Cadmium	D006	Selenium	D010
Chromium	D007	Silver	D011

INK SLUDGES CONTAINING CHROMIUM AND LEAD



soaps, and stabilizers containing chromium and lead. All ink sludges This category includes solvent washes and sludges, caustic washes and sludges, and water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, have the waste code K086.

materials are commonly considered to be reactive:

Chromic Acid Hypochlorites Acetyl Chloride | Cyanides

Organic Peroxides Perchlorates

Permanganates

SPENT PLATING AND CYANIDE WASTES



cyanide. Cyanide heat treating wastes generally have the waste codes F010-F012 Spent plating wastes contain cleaning solutions and plating solutions production, and manufacturing of anti-caking agents. Plating wastes with caustics, solvents, heavy metals, and cyanides. Cyanide wastes generally have the waste codes F006-F009, with F007 and F009 containing may also be generated from heat treatment operations, pigment (see 40 CFR 261.31 for a more complete description of plating wastes)

WOOD PRESERVING AGENTS



The wastewater treatment sludges from wastewater treatment operatreatment of wastewater processes that use creosote and pentachlotions are considered hazardous. Bottom sediment sludges from the rophenol have the waste code K001. In addition, unless otherwise ndicated, specific wood preserving compounds are:

Chromated Copper Arsenate

D004 | Pentachlorophenol

RESPONDING TO EMERGENCIES

Your facility. One way is to develop a contingency plan. A contingency plan usually answers a set of "what if" questions. For example: "What if there is a fire in the area where hazardous waste is stored?" or "What if I spill hazardous waste, or one of my hazardous waste containers leaks?" Although EPA does not require SQGs to develop a written contingency plan, in case of a fire, explosion, or toxic release, having such a plan would provide an organized and coordinated course of action. EPA does require SQGs to establish basic safety guidelines and response procedures to follow in the event of an emergency.

Worksheets 1 and 2 (see page 19) can help you set up these procedures. The information on Worksheet 1 must be posted near your phone. You must ensure that employees are familiar with these procedures. Keep information current.

IF YOU THINK YOU HAVE AN EMERGENCY, IMMEDIATELY CALL THE NATIONAL RESPONSE CENTER AT (800) 424-8802 AND ADEQ AT (602) 771-2330 OR (800) 234-5677.

In the event of a fire, explosion, or other release of hazardous waste that could threaten human health outside the facility, or if you think that a spill has reached surface water, call the National Response Center to report the emergency. The Response Center will evaluate the situation and help you make appropriate emergency decisions. In many cases, you will find that the problem you faced was not a true emergency, but *it is better to call if you are not sure*. Stiff penalties exist for failing to report emergencies.

PREVENTING ACCIDENTS

Whenever you store hazardous waste onsite, you must minimize the potential risks from fires, explosions, or other accidents.

All SQGs that store hazardous waste on-site must be equipped with:

- An internal communications or alarm system capable of providing immediate emergency instruction (voice or signal) to all personnel.
- A device, such as a telephone (immediately available at the scene of operations) or a handheld, two-way radio, capable of summoning emergency assistance from local police and fire departments or emergency response teams.
- Portable fire extinguishers, fire control devices (including special extinguishing equipment, such as that using foam, inert gas, or dry chemicals), spill control materials, and decontamination supplies.
- Water at adequate volume and pressure to supply water hose streams, foam-producing equipment, automatic sprinklers, or water spray systems.

You must test and maintain all equipment to ensure proper operation. Allow sufficient aisle space to permit the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equip-

ment to any area of facility operation. Attempt to secure arrangements with fire departments, police, emergency response teams, equipment suppliers, and local hospitals, as appropriate, to provide services in the event of an emergency. Ensure that personnel handling hazardous waste have immediate access to an alarm or emergency communications device.



WASTE MINIMIZATION: THE KEY TO BETTER WASTE MANAGEMENT

The easiest and most cost-effective way of managing any waste is not to generate it in the first place. You can decrease the amount of hazardous waste your business produces by developing a few good housekeeping habits. Good housekeeping procedures generally save businesses money, and they prevent accidents and waste. To help reduce the amount of waste you generate, try the following practices at your business.

- Do not mix wastes. Do not mix nonhazardous waste with hazardous waste. Once you mix nonhazardous waste with hazardous waste, you may increase the amount of hazardous waste created, as the whole batch may become hazardous. Mixing waste can also make recycling very difficult, if not impossible. A typical example of mixing wastes would be putting nonhazardous cleaning agents in a container of used hazardous solvents.
- Many companies routinely put useful components back into productive use rather than disposing of them. Items such as oil, solvents, acids, and metals are commonly recycled and used again. In addition, some companies have taken waste minimization actions, such as using fewer solvents to do the same job, using solvents that are less toxic, or switching to a detergent solution.
- Change materials, processes, or both. Businesses can save money and increase efficiency by replacing a material or a process with another that produces less waste. For example, you could use plastic blast media for paint stripping of metal parts rather than conventional solvent stripping.
- Safely store hazardous products and containers. You can avoid creating more hazardous waste by preventing spills or leaks. Store hazardous product and waste containers in secure areas, and inspect them frequently for leaks. When leaks or spills occur, materials used to clean them up also become hazardous waste.



EMERGENCY RESPONSE INFOR	RMATION
EMERGENCY COORDINATOR	SPILL CONTROL MATERIALS
Name:	Location(s):
Telephone:	FIRE ALARM (IF PRESENT)
FIRE EXTINGUISHER	Location(s):
Location(s):	FIRE DEPARTMENT Telephone:
ORKSHEET 2 Fill in shaded are	a and post this information next to your telephone.
sure all employee	es read and are familiar with its contents.
ORKSHEET 2 Fill in shaded are sure all employee EMERGENCY RESPONSE PROC	es read and are familiar with its contents.
sure all employee EMERGENCY RESPONSE PROC	es read and are familiar with its contents.
EMERGENCY RESPONSE PROCEIN the event of a spill: Contain the flow of hazardous waste to	EEDURES
EMERGENCY RESPONSE PROCEIN the event of a spill: Contain the flow of hazardous waste to the extent possible, and as soon as is possible, clean up the hazardous waste	EEDURES
EMERGENCY RESPONSE PROCEING the event of a spill: Contain the flow of hazardous waste to the extent possible, and as soon as is possible, clean up the hazardous waste and any contaminated materials or soil.	EEDURES Our company name:
EMERGENCY RESPONSE PROCE In the event of a spill: Contain the flow of hazardous waste to the extent possible, and as soon as is possible, clean up the hazardous waste and any contaminated materials or soil. In the event of a fire: Call the fire department and, if safe,	EEDURES Our company name:
sure all employee	CEDURES Our company name: Our address:
EMERGENCY RESPONSE PROCE In the event of a spill: Contain the flow of hazardous waste to the extent possible, and as soon as is possible, clean up the hazardous waste and any contaminated materials or soil. In the event of a fire: Call the fire department and, if safe, attempt to put out the fire using a fire	CEDURES Our company name: Our address: Our U.S. EPA ID number:

outside the facility, or if you know that the spill has reached surface water: Call the National Response Center at its 24-hour number (800) 424-8802 and ADEQ at its 24-hour number (800) 234-5677 or (602) 771-2330.

Provide the following information:

Our U.S. EPA ID number:
Date of accident:
Time of accident:
Type of accident (e.g., spill or fire):
Quantity of hazardous waste involved:
Extent of injuries, if any:
Estimated quantity and disposition of recovered materials, if any:



SHIPPING HAZARDOUS WASTE OFF-SITE

When shipping waste off-site, SQGs must follow certain procedures that are designed to ensure safe transport and proper management of the waste.

- Package, label and mark your shipment, and placard the vehicle in which your waste is shipped as specified in Department of Transportation (DOT) regulations.
- Prepare a hazardous waste manifest to accompany your shipment.
- Include a notice and certification with each waste shipment.
- Ensure the proper management of any hazardous waste you ship (even when it is no longer in your possession).

SELECTING A TSDF

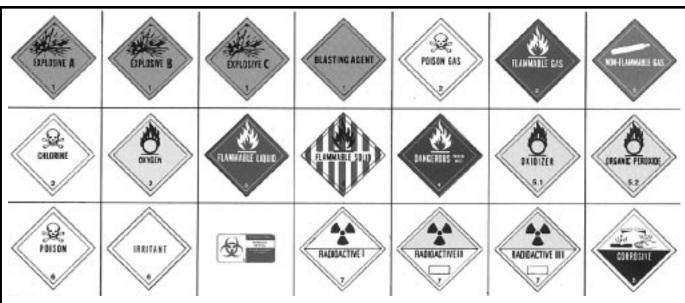
SQGs may send their waste only to a regulated TSDF or recycler. Most regulated TSDFs and recyclers will have a permit from the state or EPA. Some, however, may operate under other regulations that do not require a permit. Check with the appropriate state authorities to be sure the facility you select has any necessary permits. All TSDFs and recyclers must have EPA ID numbers.

LABELING WASTE SHIPMENTS

SQGs must properly package, label and mark all hazardous waste shipments, and placard the vehicles in which these wastes are shipped following DOT regulations. Most small businesses use a commercial transporter to ship hazardous waste. These transporters can advise you on specific requirements for placarding, labeling, marking, and packaging; however, you remain responsible for compliance. For additional information, consult DOT regulations (49 CFR Parts 172 and 173), or call the DOT hazardous materials information line at (202) 366-4488. In Arizona, you can also contact ADOT, Hazardous Materials, at (602) 712-4407.

Pederal and Arizona regulations allow you to transport your own hazardous waste to a designated TSDF provided that you comply with DOT rules and register with ADEQ as a hazardous waste transporter. Some states, however, do not allow this practice. Call DOT and the state hazardous waste management agency to which you are shipping the waste regarding applicable regulations.

Placard and label shipments properly.



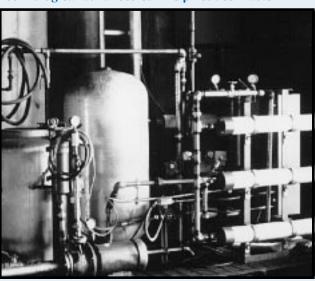
SELECTING A TRANSPORTER OR TSDF/RECYCLER

It is important to choose your transporter and your TSDF carefully since you remain responsible for the proper management of your hazardous waste even after it has left your site and has been processed by your TSDF.

For help in choosing a transporter or TSDF, check with the following sources:

- References from business colleagues who have used a specific hazardous waste transporter or TSDF.
- ■Trade associations for your industry that might keep a file on companies that handle hazardous waste.
- The Better Business Bureau or Chamber of Commerce in the TSDF's area, which might have a record of any complaints registered against a transporter or a facility.
- ■ADEQ can tell you whether the transporter or TSDF has a U.S. EPA ID number and a permit, if required.

Technological advances can help reduce waste.



PREPARING HAZARDOUS WASTE MANIFESTS

hazardous waste manifest must accompany all hazardous waste that is shipped off-site. A hazardous waste manifest is a multipart form designed to track hazardous waste from generation to disposal. It will help you track your waste during shipment and ensure it arrives at the proper destination. If you send waste to a recycling facility, you may be able to use a tolling agreement instead of a manifest. A tolling agreement is a *closed-loop* arrangement whereby a generator contracts with a recycling company to reclaim its hazardous waste and return it as a recycled product, thereby avoiding disposal. A copy of the contract must be kept on file for three years after the contract has ended.

Various versions of hazardous waste manifest forms are available.

- Some states require their own manifest form. Arizona uses the federal form (Uniform Hazardous Waste Manifest, EPA form 8700-22). If the state to which you are shipping your waste requires its own manifest, use that state's form. To obtain manifest forms, contact the hazardous waste management agency of the recipient state, your transporter, or the TSDF that you intend to use.
- If the state to which you are shipping does not require its own manifest, you can use the federal form. Copies are available from some transporters, TSDFs, and some commercial printers.
- Arizona requires a hazardous waste generation fee of \$10 for each ton generated and shipped off site, beginning at 1 ton and prorated per additional ton. Companies having approved Arizona Pollution Prevention Plans receive a \$5 per ton discount. See Appendix C.

You must fill in all parts of a manifest and sign it. Information requested includes: name of transporter, name of the designated facility, your EPA ID number, quantity of waste, and a description of the waste based on DOT requirements, such as proper shipping name and hazard class. Call the DOT information line for more information on DOT waste description requirements. Arizona requires the EPA Waste Codes to be listed in Column I.

The transporter is required to sign the completed manifest when the shipment is accepted for transport. The facility operator at the designated TSDF also signs the form when the shipment is received and sends a copy of it back to you. You must keep this copy on file for three years. (It might be a good practice, however, to keep it for as long as you are in business.) Arizona also requires the generator and transporter to send a copy of the manifest to ADEQ, Hazardous Waste Section, Facility Assistance Unit, 1110 W. Washington St., 4415A-1, Phoenix, AZ, 85007. All TSDFs located in Arizona are also required to send copies to ADEQ.

Arizona requires generators to submit manifests for hazardous waste shipments only. The generator copy submitted to ADEQ must have three signatures: the generator, the transporter, and the TSDF.

Any SQG that does not receive a signed copy of the manifest from the designated TSDF must submit a legible copy of the manifest together with a written notice indicating that a signed copy was not received from the facility operator. This is known as an *exception report* and must be submitted to ADEQ within 60 days following the end of the month of shipment of the waste. If errors are found in your manifest, you must correct the manifest and pay a \$20 per manifest resubmittal fee. See Appendix C for example.

LAND DISPOSAL RESTRICTIONS (LDR) REPORTING REQUIREMENTS

Regardless of where a is being sent, for each shipegardless of where the waste ment of waste subject to LDRs you must send the receiving TSDF or recycler an LDR notice. This notice must provide information about your waste, such as the EPA hazardous waste code and the LDR treatment standard. The purpose of this notice is to let the TSDF know that the waste must meet treatment standards before it is land disposed. There is no required form for this notice, but your TSDF may provide a form for you to use. A certification may also be required in specific situations. Call the EPA RCRA Hotline at (800) 424-9346, the **ADEQ Inspections and Compliance** Unit at (602) 771-4108, and consult 40 CFR Part 268 for help with LDR notification and certification requirements.

EXPORT NOTIFICATION

If you choose to export your hazardous waste, you must notify EPA 60 days before the intended date of shipment to obtain written consent. EPA's *Acknowledgment of Consent* document must accompany the shipment at all times. For more information on how to obtain the consent to export hazardous waste, contact the EPA RCRA Hotline at (800) 424-9346.

Plating processes must be managed properly.



Summary of Requirements for LQGs

If you are a large quantity generator (LQG) [generating more than 2,200 lb (1,000 kg) in any calendar month or 220 lb (100 kg) of acute spill residue], you must comply with the full set of hazardous waste regulations. If you generate or accumulate more than 2.2 lb (1 kg) acutely hazardous waste or 220 lb (100 kg) of acute spill residue in a calendar month, the acutely hazardous waste must be managed according to LQG regulations. This table summarizes the federal and state LQG requirements. This is only a summary and does not include all of the LQG requirements. For more details, call the EPA RCRA Hotline, ADEQ Inspections & Compliance Unit, or see 40 CFR Part 262.

LQG REQUIREMENTS	Summary		
Hazardous waste determination (40 CFR 262.10) Generator category determination [40 CFR 262.10 (b) and 261.5 (b) and (c)]	Identify and document all hazardous wastes you generate. Measure the amount of hazardous waste you generate per calendar month to determine your generator category (e.g., LQG).		
EPA ID numbers (40 CFR 262.12)	Obtain a copy of EPA Form 8700-12, fill out the form, and send it to the contact listed with the form. An EPA ID number will be returned to you for your location.		
Prepare hazardous waste for shipment off-site (40 CFR 262.30–262.33)	Package, label, mark, and placard wastes following DOT requirements. Ship waste using hazardous waste transporter.		
The manifest (40 CFR 262.20–262.23, 262.42)	Ship waste to hazardous waste treatment, storage, disposal, or recycling facility. Ship hazardous waste off-site using the manifest system (EPA Form 8700-22) or state equivalent. Send copy to ADEQ.		
Managing hazardous waste on-site (40 CFR 262.34)	Accumulate waste for no more than 90 days without a permit. Accumulate waste in: Containers / drip pads / tanks / containment buildings, and comply with specified technical standards for each unit type. Comply with preparedness and prevention requirements. Prepare written contingency plan. Train employees in hazardous waste management and emergency response.		
Recordkeeping, registration, fees, and annual report (40 CFR 262.40–262.41) Arizona requires an annual report.	Retain specified records for three years. Register with ADEQ and pay annual fee of \$300. Arizona requires a hazardous waste generation fee of \$10 for each ton generated and shipped off site, beginning at 1 ton and prorated per additional ton. Companies having approved Arizona Pollution Prevention Plans receive a \$5 per ton discount. Submit annual reports by March 1 of each year covering generator activities for the previous year.		
Comply with land disposal restrictions (40 CFR 268)	Ensure that wastes meet treatment standards prior to land disposal. Send notifications and certifications to TSDF as required. Maintain waste analysis plan if treating on-site.		
Export/import requirements (40 CFR 262 Subparts E and F)	Follow requirements for exports and imports, including notification of intent to export and acknowledgment of consent from receiving country.		

FINAL TIPS

ARE YOU SURE?

- Have you marked your containers of hazardous waste with the words HAZARDOUS WASTE? Have you included the accumulation start date?
- ■Do you keep your containers closed at all times, except when adding or removing waste?
- Have you done a hazardous waste determination? Have you kept the records of test results, waste analysis, or other determination?
- Are you operating and maintaining your facility in a manner to minimize the possibility of hazards through abatement of potential fire, explosions, safety hazards, and potential releases? Are you providing adequate maintenance and repair of your equipment and structures so you are in compliance with state and local fire, electrical and building codes, and safety codes?
- Are you controlling, containing, cleaning up, and properly disposing of any and all releases of hazardous waste?
- Have you developed and are you maintaining and posting the required emergency contact information next to your telephone?
- Are you filing your Annual Report and paying your registration and generation fees?

The above are things that inspectors typically find facilities not doing when they go on inspections—don't be caught in violation.

CAN YOU USE THE UNIVERSAL WASTE RULE?

Do you have hazardous wastes that can be managed under the hazardous waste universal waste rule? Items such as hazardous waste batteries, certain hazardous waste pesticides, mercury-containing thermostats, and mercury-containing waste lamps fall under the universal waste regulations.

Small and large businesses that generate hazardous wastes that are in the universal waste categories listed above can use the more streamlined requirements under the universal waste rule. It eases the regulatory burden on businesses that generate these wastes. Specifically, it has streamlined requirements for: notification, labeling, marking, prohibitions, accumulation time limits, employee training, response to releases, off-site shipments, tracking, exports, and transportation.

For example, the rule extends the amount of time that businesses can accumulate these materials on site. It also allows companies to transport them with a common carrier, instead of a hazardous waste transporter, and no longer requires companies to obtain a manifest.

For additional assistance, contact the Facility Assistance Unit, Compliance Assistance Program, at (602) 771-4235.



WHERE TO GET MORE HELP

Y our business may also be regulated by other sections of the Code of Federal Regulations (CFR). You may want to investigate the following CFRs:

- Handling PCBs (40 CFR Part 761)
- ■Toxic Release Inventory (TRI) Reporting (40 CFR Part 372)
- Domestic Sewage Waste Disposal Reporting (40 CFR Part 403)
- Shipping Hazardous Materials (49 CFR Parts 171-180)

APPENDIX A—STATE HAZARDOUS WASTE MANAGEMENT ASSISTANCE

Por further assistance in understanding the hazardous waste rules applicable to you, or your compliance with them, contact:

Arizona Hazardous Waste Inspections & Compliance Unit Arizona Dept. of Environmental Quality 1110 W. Washington St. Phoenix, AZ 85007 (602) 771-4108 or (800) 234-5677

Or call the Facility Assistance Unit, Compliance Assistance Program. The ADEQ Compliance Assistance program is a free, non-regulatory assistance program created to help small businesses understand and follow hazardous waste regulations, and identify pollution prevention opportunities that may save money and reduce liability. Businesses can receive non-regulatory assistance ranging from answering questions over the phone to individual facility visits. The Compliance Assistance Program can be contacted at (602) 771-4235; toll free (800) 234-5677.

To obtain the regulations, statutes, and rules referred to in this publication, contact the following or check out the Web site listed.

Code of Federal Regulations: Contact the Government Printing Office, (202) 512-1800; http://www.epa.gov/epacfr40/chapt-I.info/

Arizona Revised Statues: Contact the Arizona State Bar Association, (602) 252-4804; http:// www.azleg.state.az.us/ars/49/title49.htm

Arizona Administrative Code (AAC): Contact the Secretary of State, (602) 542-4086, http://www.sos.state.az.us/public_services/Table_of_contents.htm

APPENDIX B—EPA AND OTHER FEDERAL RESOURCE CENTERS

EPA Region 9 / Hazardous Waste Management Div. 75 Hawthorne Street
San Francisco, CA 94105
Phone: (415) 947-8708
Library: (415) 744-1510
www.epa.gov/region09/

RCRA/Superfund/LUST Hotline 1725 Jefferson Davis Highway Arlington, VA 22202

Phone: (800) 424-9346 or TDD (800) 553-7672

Fax: (703) 486-3333

Answers questions on matters related to solid waste, hazardous waste, and underground storage tanks. Also can be used to find and order EPA publications.

Small Business Ombudsman Clearinghouse/ Hotline

U.S. EPA / Small Business Ombudsman (1230C)

401 M Street SW

Washington, DC 20460

Phone: (800) 368-5888

Fax: (703) 305-6462

Helps private citizens, small businesses, and smaller communities with questions on all program aspects within EPA.

Pollution Prevention Information Clearinghouse (PPIC)

PPIC-EPA

401 M Street SW (3404)

Washington, DC 20460

Phone: (202) 566-0799 Fax: (202) 566-0794

E-mail: PPIC@epamail.epa.gov

Provides a library and an electronic bulletin board (accessible by any PC equipped with a modem) dedicated

 $to\ information\ on\ pollution\ prevention.$

APPENDIX C: FORMS/INVOICES FROM THE HAZARDOUS WASTE SECTION

HAZARDOUS WASTE REGISTRATION FEE INVOICE AND FACILITY ANNUAL REPORT FOR SQGS

This form is mailed in January to SQGs, LQGs, TSDFs, resource recovery facilities, and transporters. It covers your registration fees for the current year and is based on the highest amount of hazardous waste you generated in any one month of the previous year.

· · · · · · · · · · · · · · · · · · ·	Environmental Quality		
Great	ATION FEE INVOICE		
Hazardoi Hazardoi			
(and Facility Annua	al Report for SQGs)		
Present to A.R.N. 8-98-113, interest with the diarged it full your entries in interest either the appendied due dury. They also given the amount hard, in raise concert ADEO as short as	If you have questions about Hazardons Waste, call the Facility Assistance Unit at (602) 771-4363 or toll-free within Arizona at (800) 234-5677, extension 771-436		
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Pursuant to A.R.S. § 49-929 and 930, all hazardous waste transporters, it and hazardous waste transporters, it	hazardous waste generators, hazardous waste resource recovery facilities ster annually with the Arizona Department of Environmental Quality and taxes ov mines are specified in A.R.S. § 49–282.0 . Maximum annual A.R.S. § -9-930.B.		
Account Number:	Invoice Number;		
То	EPA#:		
	Portod Covered: 2002		
	Due Date.		
	Total Amount Due		
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↑ Keep the top portio	in for your records 1 ADEQ Federal Tax #866004791		
↓ This entire bottom portion i Hazardous Waste Annual	ADEQ Federal Tax #866004791		
	Account Number, HWR		
	Period Covered; 2002		
	Due Dase:		

HAZARDOUS WASTE FACILITY ANNUAL REPORT FOR CESQGS

This form is the annual report for CESQGs. Your status is based on the highest amount of hazardous waste you generated during any one month in the previous year. It is also mailed in January. CESQGs have no registration fees.

	Arizona Department of Environmental Quality 2002 FACILITY ANNUAL REPORT (FAR)			
	for Conditionally Exempt Small Quantity Generators Hazardous Waste			
Arizona Department of Environmental Quali Facility Assistance Unit - 4415A-1 1110 W Washington St Phoenix, AZ 85007-2935	ty II you have any questions about this form, call the Facility Assistance Unit at (602) 771-4363 or toll-free within Arizona at (800) 234-5677, extension 771-4363			
	for filling out this report are written below, as information below and correct any errors.			
Account Number:	EPA #:			
To:	Due Date:			
S.te Address: Standard Industrial Classification (SIC) code(s):				
Standard Industrial Classification (SIC) code(s):	INSTRUCTIONS and disposal facilities and resource recovery facilities must file a Facility Annual Report. 31, 2002. Check all pre-printed information and make the necessary corrections. The signer here size address associated with the LPA ID number or this form. The FPA ID number is			
Standard Industrial Classification (SIC) code(s): All hazardous waste generators, transporters, treatment the reporting year is January: I through December address should be pre-printed above if a is not residence should be pre-printed above if a is not a new facilities specific and cannot be transferred to a new facilities.	INSTRUCTIONS and disposal facilities and resource recovery facilities must file a Facility Annual Report. 31, 2002. Check all pre-printed information and make the necessary corrections. The signer here size address associated with the LPA ID number or this form. The FPA ID number is			
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Standard Industrial Classification (SIC) code(s): All hazardous waste generators, transporters, treatment. The reporting year is January 1 through December 1 address should be pre-printed above. If a to not, once indespective and cannot be unanterred to a new factors of the per-Line 1: Print the name and phone number of the per-Line 2: If this facility was in business A1 ANY TIM.	INSTRUCTIONS and and disposal facilities and resource recovery facilities must file a Facility Annual Report. 31, 2002. Check all pre-printed information and make the necessary corrections. The sagen the sate address associated with the LPA ID number on this form. The EPA ID number is ity. son we can nontact if we have any questions about this report. IE during 2002, check "Yes". If this facility was our of basiness PRIOR TO January 1, 2002, went out of business.			

HAZARDOUS WASTE GENERATION FEE INVOICE

This form is also mailed to SQGs in January of each year. It covers the amount of hazardous waste you generated in the preceding year.

	na Department of Environmental Quality GENERATION FEE INVOICE
	Hazardous Waste
or cach not of waste gonerated. 3 — , become who get, . In hou, of the fees prescribed in punggraphs that 3 …	Ediparation is not received by the pressure of
Account Number	Invoice Number:
la:	EPA#:
	Period Covered:
	Due Date:
	Total Amount Due
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	† Keep the top portion for your records. † ADEQ Federal Tax #866004791
1 This and in	e bottom portion must be returned to ADEQ. ↓ ADEQ Federal Tax #856004791
↓ This entire	Hazardous Waste Generation Fee Invoice #
v This entire	· · · · · · · · · · · · · · · · · · ·
v 1 ms enure	Hazardous Waste Generation Fee luvoice #

HAZARDOUS WASTE MANIFEST RESUBMITTAL FEE INVOICE

This form is only used when a facility has an error on the manifests submitted to ADEQ. A \$20 fee is charged on each incorrect manifest.

Cart See	ITTAL FEE INVOICE us Waste
	If you have any questions about this invoice, call the Department at (602) 771-4232 or toll-free within Arizona at (800) 234-5677, extension 771-42 casts required to be submitted to ADEQ is improperly counfeted, the Department orgets complete and resummt the mattreet. The tee for resulantial of a manifest
Account Number:	Invoice Number:
To.	Manifest # (see attached)
	Due Date:
	EPA#:
	Total Amount Due
	Amount Paid
† Keep the top portic	on for your records. † ADEQ Federal Tax #866004791
↓ This entire bottom portion	must be returned to ADEQ. ↓ ADEQ Federal Tax #866004791
Hazardous Waste Ma	nifest Resubmittal Fee Invoice #
	nifest Resubmittal Fee Invoice #

WORKSHEET 3

other		lous w	re geared toward the federal requirements for SQGs but may be helpful for vaste generators. Use them to help prepare for a visit from a federal, state,
YES	No	/ -	
		1.	Do you have documentation on the amount and kinds of hazardous waste that you generate and how you determined that they are hazardous?
О		2.	Do you have a U.S. EPA ID number?
О	О	3.	Do you ship wastes off-site?
		4.	If so, do you know the names of the transporter and the designated TSDF that you use?
		5.	Do you have copies of completed manifests used to ship your hazardous wastes over the past three years? Have you sent copies with all three signatures to ADEQ ?
О		6.	Are they filled out correctly?
О	О	7.	Have they been signed by the designated TSDF and transporter?
		8.	If you have not received your signed copy of the manifest from the TSDF, have you filed an exception report?
		9.	Is your hazardous waste stored in proper containers or tanks?
		10.	Are the containers or tanks properly dated and/or marked?
		11.	Have you complied with the handling requirements described in this document?
		12.	Have you designated an emergency coordinator?
		13.	Have you posted emergency telephone numbers and the location of emergency equipment? Is your Emergency Coordinator's name correct?
		14.	Are your employees thoroughly familiar with proper waste handling and emergency procedures?
		15.	Do you understand when you need to contact the National Response Center and ADEQ?
0		16.	Do you store your waste for no more than 180 days, or 270 days if you ship your waste more than 200 miles?



DEFINITIONS

Acute Hazardous Waste

Waste that is listed and even when managed properly is extremely dangerous.

By-product

A material that is not one of the primary products of a production process. Examples of by-products are process residues, such as slags or distillation column bottoms.

Commercial Chemical Product

A chemical substance that is manufactured or formulated for commercial or manufacturing use.

Container

Any portable device in which a material is stored, transported, treated, disposed of, or otherwise handled.

Elementary Neutralization Unit

A tank, tank system, container, transport vehicle, or vessel (including ships) that is designed to contain and neutralize corrosive waste.

Reclaimed Material

Material that is regenerated or processed to recover a usable product. Examples are the recovery of lead values from spent batteries and the regeneration of spent solvents.

Recovered Material

A material or by-product that has been recovered or diverted from solid waste. Does not include materials or by-products generated from, and commonly used within, an original manufacturing process.

Recycled Material

A material that is used, reused, or reclaimed.

Reused Material

A material that is employed as an ingredient in an industrial process to make a product, or as an effective substitute for a commercial product.

Spent Material

Any material that has been used and, as a result of contamination, can no longer serve the purpose for which it was produced without first processing it.

Sludge

Any solid, semi-solid, or liquid waste generated from a municipal, commercial, or industrial wastewater treatment plant, water supply treatment plant, or air pollution control facility, exclusive of the treated effluent from a wastewater treatment plant.

Still Bottom

Residue or by-product of a distillation process, such as solvent recycling.

Tank

A stationary device designed to contain an accumulation of hazardous waste that is constructed primarily of nonearthen materials (e.g., wood, concrete, steel, plastic).

Totally Enclosed Treatment Facility

A facility for the treatment of hazardous waste that is directly connected to an industrial production process and that is constructed and operated so as to prevent the release of hazardous waste into the environment during treatment. An example is a pipe in which waste acid is neutralized.

Toxicity Characteristic Leaching Procedure (TCLP)

A testing procedure used to determine whether a waste is hazardous. The procedure identifies waste that might leach hazardous constituents into groundwater if improperly managed.

Wastewater Treatment Unit

A tank or tank system that is subject to regulation under either Section 402 or 307(b) of the Clean Water Act, and that treats or stores an influent wastewater that is hazardous waste, or that treats or stores a wastewater treatment sludge that is hazardous.



ARIZONA DEPT. OF ENVIRONMENTAL QUALITY 1110 WEST WASHINGTON STREET PHOENIX, AZ 85007



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TDD (602) 771-4829
TOLL FREE IN ARIZONA (800) 234-5677
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