

# Waste Regulations 101



# Office of Waste Management & Radiological Protection



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# Housekeeping

All lines are muted

Questions can be sent to us via the question/chat box

We will record webinar and post online

Notes page

Questions will be covered last

# Waste Regulations 101



**Type II Municipal Waste Landfill**

**Goal of  
Today's  
Discussion:**

**Provide an  
overview of the  
types of waste  
regulated by the  
state and federal  
regulations**

# Waste Regulations 101

## Types of Waste Regulated by Statute:

- Hazardous Wastes
- Solid Wastes
- Waste Recycling and Reduction
- Liquid Industrial By-Products
- PCB Waste
- Medical Wastes
- Radioactive Waste

# Waste Regulations 101

## How do I start?

- Identify what wastes are generated at your facility
- Tour your entire facility and inventory all waste streams

# Waste Regulations 101

## What is a waste?

- A waste is any discarded material
- A waste can be a solid, liquid, semisolid, or gaseous material

# Waste Regulations 101

## What is a waste?

Material that can not be used for its original intended purposes, including materials that are:

- Burned as fuel
- Accumulated and recycled or reclaimed
- Discarded, abandoned or disposed

# Waste Regulations 101

**As a general rule of thumb...**

**...less hazardous waste = less regulation & more disposal options under the law**

*There is no one best answer for how to dispose of waste for all businesses & locations*

# Waste Regulations 101

## Hazardous Waste Regulations

- Regulated under Part 111 of Act 451
- Determined to be a threat to human health or the environment
- Apply to all businesses, including municipalities, hospitals, & service industries, not just manufacturing industries

# Waste Regulations 101

## Waste Characterization

Is the waste **listed** on lists in the hazardous waste rules?

Does the waste exhibit a **characteristic** that makes it hazardous?

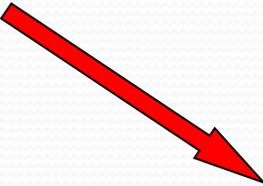
- Ignitable
- Corrosive
- Toxic
- Reactive



# Waste Regulations 101

## Listed Hazardous Waste Codes

### Listed In Part 111 Hazardous Waste Rules



R 299.9220 Table 203a; hazardous waste from nonspecific sources.  
Rule 220. Table 203a reads as follows:

Table 203a		
EPA Hazardous Waste Number	Hazardous Waste From Nonspecific Sources	Hazard Code
F001	The following spent halogenated solvents used in degreasing: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and chlorinated fluorocarbons; all spent solvent mixtures and blends used in degreasing containing, before use, a total of 10% or more, by volume, of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures	(T)
F002	The following spent halogenated solvents: tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane and 1,1,2-trichloroethane; all spent solvent mixtures and blends containing, before use, a total of 10% or more, by volume, of one or more of the above halogenated solvents or those solvents listed in F001, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures	(T)

# Waste Regulations 101

## Listed Hazardous Waste Codes

**Wastes from non-specific sources** like spent solvents & metal treatment sludges

- Table 203a
- F codes

**Wastes from specific industries** like petroleum refineries and chemical manufacturer

- Table 204a
- K codes

# Waste Regulations 101

## Listed Hazardous Waste Codes

**Commercial chemical products, off-specification products, container and spill residues like nicotine formaldehyde, DDT, xylene**

- materials with sole active ingredient
- Tables 205 a, b & c
- U codes

# Waste Regulations 101

## Characteristic Hazardous Waste Codes

- Ignitable - D001
- Corrosive - D002
- Reactive - D003
- Toxic - D004 – D043 (Table 201a)
- Severely Toxic – 001S - 007S  
(Table 202, includes dioxins & furans)

# Waste Regulations 101

## Characteristic Waste Common Test

- **Flash point** – Used for testing Ignitability  $< 140$  F  
Examples: paints, solvents
- **pH** – Used for testing corrosivity  $\leq 2$  or  $\geq 12.5$   
Examples: acids, bases
- **Reactivity** – Test as required for DOT classification for materials that are unstable at normal conditions, reacts violently with water, explode, etc.  
Examples: lithium hydride & trichlorosilane

# Waste Regulations 101

## Characteristic Waste Codes Common Tests

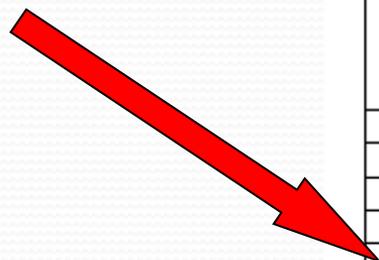
- TCLP (Toxicity Characteristic Leaching Procedure) - Used for testing leaching potential for the 40 Table 201a hazardous constituents

Examples: Paints or sludges containing metals or MEK, contaminated media

# Waste Regulations 101

## TCLP Characteristic Hazardous Waste Codes

Listed In Part 111  
Hazardous Waste  
Rules



R 299.9217 Table 201a.  
Rule 217. Table 201a reads as follows:

Table 201a			
EPA Hazardous Waste Number	Chemical Abstract Services Number	Material	Extract Concentration milligrams per liter
D004	440-38-2	Arsenic	5.0
D005	7440-39-3	Barium	100.0
D018	71-43-2	Benzene	0.5
D006	7440-43-9	Cadmium	1.0
D019	56-23-5	Carbon tetrachloride	0.5
D020	57-74-9	Chlordane	0.03
D021	108-90-7	Chlorobenzene	100.0
D022	67-66-3	Chloroform	6.0
D007	7440-47-3	Chromium	5.0
D023	95-48-7	o-Cresol	200.0**
D024	108-39-4	m-Cresol	200.0**
D025	106-44-5	p-Cresol	200.0**
D026	-----	Cresol	200.0**
D016	94-75-7	2,4-D (2,4-Dichlorophenoxyacetic Acid)	10.0
D027	106-46-7	1,4-Dichlorobenzene	7.5
D028	107-06-2	1,2-Dichloroethane	0.5
D029	75-35-4	1,1-Dichloroethylene	0.7

# Waste Regulations 101

Once the hazardous wastes have been identified, check for exemptions or exclusions!

# Waste Regulations 101

## Common Exemptions & Exclusions

- Wastewater discharges to POTW's that are **approved** by that sewer authority are exempted at the point of discharge to the sewer



# Waste Regulations 101

## Common Exemptions & Exclusions

- Batteries, pesticides, mercury devices, electric lamps, pharmaceuticals, consumer electronics & antifreeze handled as Universal Waste enjoy a **partial exemption**



# Waste Regulations 101

## Common Exemptions & Exclusions

- Used oils that are recycled
- Petroleum contaminated media from leaking UST systems that fail the TCLP for D018 – D043 only & are being remediated under DEQ approval pursuant to Part 213 of Act 451
- Off-specification fuel (gas, kerosene, diesel, etc.) being recycled into fuel or burned as fuel

# Waste Regulations 101

## Common Exemptions & Exclusions

- Materials remaining in manufacturing units that would otherwise be hazardous wastes - if taken out of service the material becomes a hazardous waste (degreasers, paint pots)
- Laundered rags that are reused that would otherwise be a hazardous waste



# Waste Regulations 101

## Common Exemptions & Exclusions –

Household waste, including  
single & multiple residences, hotels &  
motels, bunkhouses, ranger stations, crew  
quarters, campgrounds, picnic grounds, &  
day-use recreational areas

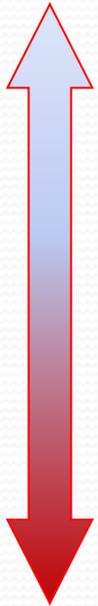
# Waste Regulations 101

## Conditionally Exempt Small Quantity Generator Exemption –

- Monthly hazardous waste generation < 220 lbs. or ~ 1/2 drum non-acute and 2.2 lbs. acute
- Total hazardous waste accumulation **ALWAYS** be less than 2200 pounds (5 drums)
- Wastes are properly disposed under other regulations

# Waste Regulations 101

Less  
Regulation



Solid Waste

Liquid Industrial By-Products Generators (LIB)

Universal Waste Generators

Conditionally Exempt Small Quantity  
Generators (CESQGs)

Small Quantity Generators (SQGs)

Large Quantity Generators (LQGs)

More  
Regulation

# Waste Regulations 101

## Hazardous Waste Generator Status

Hazardous waste generator status is based:

- Total quantity of hazardous waste generated each calendar month AND
- The amount of hazardous waste accumulated at any one time

***This information is used to determine the handling & disposal requirements for the waste!!!***

# Waste Regulations 101

## Hazardous Waste Generator Status

Do not count the following wastes when determining your monthly generator status:

- Waste excluded from definition of hazardous waste (e.g. recycled scrap metal, recycled fuel, POTW permitted disposal)
- Universal waste
- Used oil
- Empty containers
- Liquid industrial by-product

# Waste Regulations 101

## Hazardous Waste Generator Status

	<b>CESQG</b>	<b>SQG</b>	<b>LQG</b>
Amount of acute or severely toxic haz waste generated or accumulated at any time.	1 kg. (2.2 lbs.) or less	1 kg. (2.2 lbs.) or less	>1 kg. (2.2 lbs.)
Amount of acute spill residue or cont. soil generated or accumulated at any time	100 kgs. (220 lbs.) or less	100 kgs. (220 lbs.) or less	>100 kgs. (220 lbs.)
Amount of non-acute haz waste generated in 1 calendar month.	100 kg. (220 lbs.) or less	>100 kg. (220 lbs.) but <1000 kg (2200 lbs.)	>1000 kg. (2200 lbs.)

# Waste Regulations 101

## Hazardous Waste Generator Status

	<b>CESQG</b>	<b>SQG</b>	<b>LQG</b>
Approx. volume of non-acute haz waste.	25 gallons (assuming the liquid wt. equals that of water)	25 to 250 gallons	200 to 250 gallons
Max amount of non-acute haz waste that can be accumulated on site.	1000 kg (2200 lbs.)	6000 kg (13,200 lbs.)	No maximum amount
Max time period before waste must be shipped.	No time limit if never exceeding 2200 lbs.	180 days unless shipped over 220 miles; then 270 days	90 days

# Waste Regulations 101

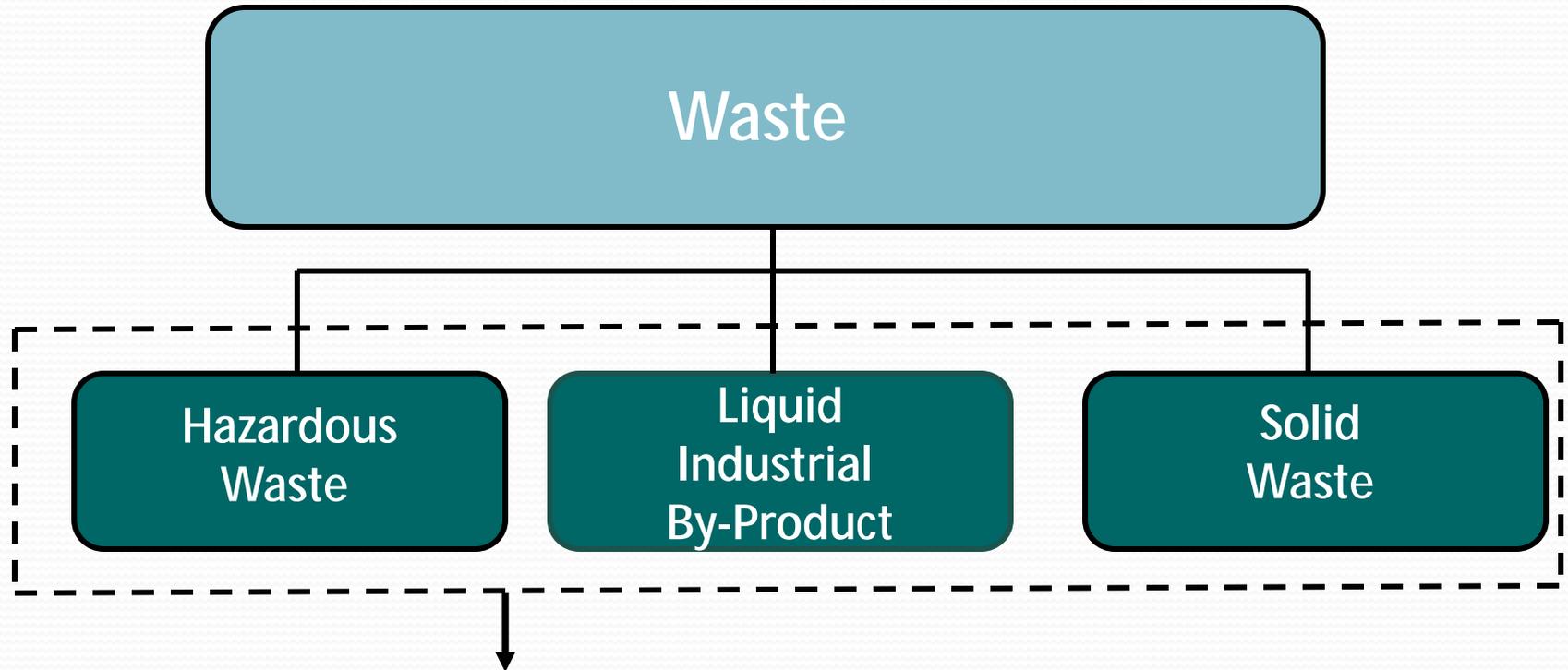
## Hazardous Waste Generator Requirements

See Chapter 2, Table 2.6 in DEQ Guidebook at [www.michigan.gov/ehsguide](http://www.michigan.gov/ehsguide)

TABLE 2.6 Summary of the Hazardous Waste Generator Requirements

	Conditionally Exempt Small Quantity Generator (CESQG)	Small Quantity Generator (SQG)	Large Quantity Generator (LQG)
<b>Off-site Treatment, Storage or Disposal Destination for Waste</b>	Licensed solid waste disposal facility (solids); Liquid industrial by-product designated facility (liquids); licensed or exempt recycler; or licensed hazardous waste facility. Also, universal waste handler or universal waste destination facility for hazardous waste managed as universal waste.	Licensed hazardous waste facility; or exempt hazardous waste recycling facility. Also, universal waste handler or universal waste destination facility for hazardous waste managed as universal waste.	Licensed hazardous waste facility; or exempt hazardous waste recycling facility. Also, universal waste handler or universal waste destination facility for hazardous waste managed as universal waste.
<b>Maximum Time Period Before Waste Must Be Shipped</b>	No time limit if never exceed 2,200 pounds.	180 days, unless shipping over 200 miles, then 270 days. Storage beyond time period requires a hazardous waste license for storage.	90 days and storage beyond time period requires a hazardous waste license for storage unless meeting Rule 306(7) (R 299.9306(7)).
<b>Maximum Amount</b>	2,200 pounds non-acute and/or 2.2 pounds or less acute.	13,200 pounds non-acute and/or 2.2 pounds or less acute. If mixed 13,200 pounds.	

# Waste Regulations 101



Subject unless excluded:

- ∅ Hazardous waste if listed or characteristic
- ∅ Liquid industrial by-product if free liquids
- ∅ Solid waste if solid

# Waste Regulations 101

## Solid Waste

If the waste meets a hazardous waste exemptions or exclusions, it is subject to non-hazardous solid waste regulation if solid

Regulated under Part 115 of Act 451

Solid waste must be disposed in a Type II Municipal Solid Waste Landfill or a permitted Municipal Solid Waste Incinerator unless:

- Recycled or
- Diverted

# Waste Regulations 101

Landfills require special waste approval prior to shipment for special waste (e.g. CESQG solid hazardous waste)

**Special Waste Acceptance Profile**

Requested Facility: \_\_\_\_\_  Unsure Profile Number: \_\_\_\_\_  
 Multiple Generator Locations (Attach Locations)  Request Certificate of Disposal  Renewal? Original Profile Number: \_\_\_\_\_

**A. GENERATOR INFORMATION (MATERIAL ORIGIN)**

1. Generator Name: \_\_\_\_\_  
2. Site Address: \_\_\_\_\_  
(City, State, ZIP) \_\_\_\_\_  
3. County: \_\_\_\_\_  
4. Contact Name: \_\_\_\_\_  
5. Email: \_\_\_\_\_  
6. Phone: \_\_\_\_\_ 7. Fax: \_\_\_\_\_  
8. Generator EPA ID: \_\_\_\_\_  N/A  
9. State ID: \_\_\_\_\_  N/A

**B. BILLING INFORMATION**  SAME AS GENERATOR

1. Billing Name: \_\_\_\_\_  
2. Billing Address: \_\_\_\_\_  
(City, State, ZIP) \_\_\_\_\_  
3. Contact Name: \_\_\_\_\_  
4. Email: \_\_\_\_\_  
5. Phone: \_\_\_\_\_ 6. Fax: \_\_\_\_\_  
7. WM Hauled?  Yes  No  
8. P.O. Number: \_\_\_\_\_  
9. Payment Method:  Credit Account  Cash  Credit Card

**C. MATERIAL INFORMATION**

1. Common Name: \_\_\_\_\_  
Describe Process Generating Material:  See Attached

1.	
2.	
3.	
4.	

Total composition must be equal to or greater than 100%   $\geq 100\%$

2. Material Composition and Contaminants:  See Attached

3. State Waste Codes: \_\_\_\_\_  N/A

4. Color: \_\_\_\_\_

5. Physical State at 70°F:  Solid  Liquid  Other: \_\_\_\_\_

6. Free Liquid Range Percentage: \_\_\_\_\_ to \_\_\_\_\_  N/A

7. pH: \_\_\_\_\_ to \_\_\_\_\_  N/A

8. Strong Odor:  Yes  No Describe: \_\_\_\_\_

**D. REGULATORY INFORMATION**

1. EPA Hazardous Waste?  Yes\*  No  
Code: \_\_\_\_\_

2. State Hazardous Waste?  Yes  No  
Code: \_\_\_\_\_

3. Is this material non-hazardous due to Treatment, Deisting, or an Exclusion?  Yes\*  No

4. Contains Underlying Hazardous Constituents?  Yes\*  No

5. From an industry regulated under Benzene NESHAP?  Yes\*  No

6. Facility remediation subject to 40 CFR 63 GGGGG?  Yes\*  No

7. CERCLA or State-mandated clean-up?  Yes\*  No

8. NRC or State-regulated radioactive or NORM waste?  Yes\*  No

\*If Yes, see Addendum (page 2) for additional questions and space.

9. Contains PCBs? → If Yes, answer a, b and c.  Yes  No  
a. Regulated by 40 CFR 761?  Yes  No  
b. Remediation under 40 CFR 761.61 (a)?  Yes  No  
c. Were PCB imported into the US?  Yes  No

10. Regulated and/or Untreated Medical/Infectious Waste?  Yes  No

11. Contains Asbestos?  Yes  No



# Waste Regulations 101

Several wastes are prohibited from landfill disposal under Part 115. Those include....

- Used Oil
- Liquid Waste
- Lead Acid Batteries
- Hazardous Waste from SQG & LQG
- Low Level Radioactive Waste
- PCB Waste
- Medical Waste
- Empty Drums
- Whole Tires
- Returnable Beverage Containers
- Sewage
- Asbestos (unless landfill approved)

# Waste Regulations 101

## Solid Waste Recycling Exemptions

- Concrete Grinding Slurry
- Ethanol
- Lime Sludge
- Manure, Paunch and Pen Waste
- Backyard Composting
- Gypsum Drywall
- Fish Waste
- Scrap Wood



# Waste Regulations 101

## Inert Materials



- Inert means there are no listed hazardous wastes, or hazardous substances present in a waste at concentrations above current Part 201 cleanup criteria
- Inert materials can include dredged spoils, excavated soils, cement kiln dust, asphalt, certain construction materials, rock, etc.
- Inert materials can be used as alternate daily cover in landfills with DEQ approval or as fill

# Waste Regulations 101

## Beneficial Reuse and Recycling

- Beneficial use recycles waste materials like coal and wood bottom ash, paper pulp, cement kiln dust and foundry sand for use in industrial settings.
- Statute identifies specific use conditions that must be met for a beneficial use for the materials identified

Michigan Department of Environmental Quality  
**DEQ**

Office of Waste Management and Radiological Protection

**Beneficial Use Matrix**

USE/MATERIAL	Divided by lime, cement, or asphalt	Construction fill under impervious surface/road shoulder	Land Applied	Manufacture of new products or used as fill at landfill	Soil blending	Flue gas scrubbing reagent
	Beneficial Use 1	Beneficial Use 2	Beneficial Use 3	Beneficial Use 4	Beneficial Use 5	
Wood sawdust			X			
Wood bottom ash	X	X		X		
Pulp/paper mill ash	X	X	X	X		
Mixed wood ash	X	X	X	X		
Cement kiln dust/line kiln dust	X	X	X	X		X
Foundry sands (ferrous/aluminum)	X	X	X	X	X	
Slump sands	X	X				
Pulp/paper mill material			X			
Sand blasting media from rem. projects	X	X				
Devalored concrete grinding slurry	X	X	X	X		
Line (shaping) residue			X	X		
Sugar beet soils			X			
Flue gas desulfurization sludge	X		X			

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# Waste Regulations 101

## Examples of Diverted Waste

Household hazardous wastes like:

- Medications
- Computer, TVs, Cell Phones & Tablets
- Household Paints & Solvents
- Fluorescent Light Bulbs
- Batteries
- Used Oil



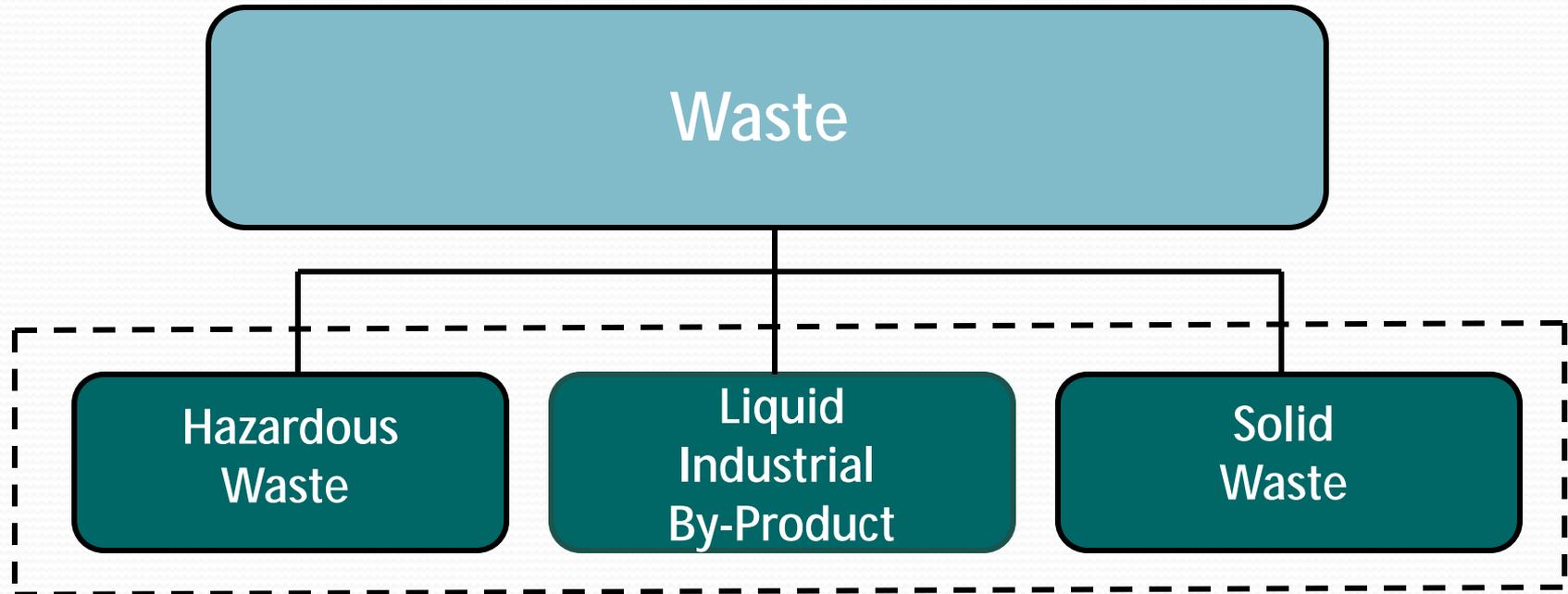
# Waste Regulations 101

## Liquid Industrial By-Product

- Regulated under Part 121 of Act 451
- Formally known as Liquid Industrial Waste
- Determined by using the Paint Filter Test, EPA Method 9095 of SW-846.
- If there are any free liquids in the waste it should be managed as a liquid industrial by-product



# Waste Regulations 101



Subject unless excluded:

- ∅ Hazardous waste if listed or characteristic
- ∅ Liquid industrial by-product if free liquids
- ∅ Solid waste if solid

# Waste Regulations 101

## Liquid Industrial By-Product

- Liquid CESQG hazardous waste
- Liquid waste that is not a listed or characteristic hazardous waste such as:

Used oil

Catch basin clean-out

Antifreeze

Contaminated fuel

Wastewaters

Waste waters

Fats, oils, grease

Wash waters

# Waste Regulations 101

## Liquid Industrial By-Product

Generators of LIB must...

- Have characterization & shipping records
- Manage LIB in tanks or containers that are in good condition, closed and have no leaks
- Labeled containers/tanks to identify their contents
- Protect containers/tanks from weather fire physical damage and vandals

DEQ, OWMRP Example Shipping Document

**STRAIGHT BILL OF LADING**  
ORIGINAL - NOT NEGOTIABLE

Bill of Lading Number: \_\_\_\_\_

**FROM:**

<b>1. Shipper / Generator Location</b>		<b>2. Shipper / Generator Mailing Address (if different)</b>	
A Top Generator 987 Oak Drive Carmville, Md 48322		Phone No.: _____	
Emergency Response Phone: _____		Generator ID (if applicable): _____	

**TO:**

<b>3. Consignee / Facility Name and Address</b>		<b>4. Consignee / Facility ID#</b>	
Bert Company 123 Main Street Smithtown, Md 48333		Phone No.: _____	
9. Notes: _____		MIX2321466	

**DELIVERED BY:**

<b>5. Carrier/Transporter Name and Address</b>		<b>6. Carrier/Transporter ID#</b>	
A Great Transporter 123 Elm Carmville, Md 48322		Phone No.: _____	
MIX9778987			

No.	No.	BASIC DESCRIPTION Lib or lib number, Proper Shipping Name, Hazard Class, Packing Group (if any)	8. Containers		9. Total Quantity	10. Unit Wt./Vol.	11. other
			No.	Type			
1.		1. acetone	60	DR	1200 g	Gallon	
2.							
3.							
4.							

12. Special Handling Instructions and Additional Information:

By signing below, Shipper hereby declares that the contents of this shipment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled in accordance with applicable governmental regulations. As shipped, I hereby certify that the liquid industrial by-product is fully and accurately described on this shipping document, in proper condition for transport, and that the information contained on the shipping document is factual.

Shipper (Print Employee Name): _____	Signature: _____	Month: _____	Day: _____	Year: _____
Carrier / Transporter (Print Driver Name): _____	Signature: _____	Month: _____	Day: _____	Year: _____
Consignee / Facility (Print Name): _____	Signature: _____	Month: _____	Day: _____	Year: _____

White Copy: Consignee/Recs Original • Yellow Copy: Consignee to Shipper • Pink Copy: Carrier/Transporter • Green Copy: Shipper Initial Copy

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# Waste Regulations 101

## Liquid Industrial By-Product

Generators of liquid industrial by-product must...

- Must have exterior of all vehicles, containers and tanks free of use oil residues
- Prevent release to ground
- Use permitted registered LIB transporter or maintain spill insurance if self transporting

# Waste Regulations 101

## Toxic Substances Control Act (TSCA)

- Regulation of TSCA is implemented by EPA
- Applies to the manufacture, processing, distribution, marking, use, storage, cleanup, and disposal of PCB-containing wastes
- Sources of PCBs include dielectric fluids, heat transfer fluids, capacitors, hydraulic fluids, etc.

# Waste Regulations 101

## Toxic Substances Control Act (TSCA)

There are generally 3 action levels of total PCB concentrations:

- <50 ppm
- $\geq$  50ppm to <500 ppm
- $\geq$  500 ppm

For more information:

- See Chapter 4, Section 4.5, of guidebook at [www.michigan.gov/ehsguide](http://www.michigan.gov/ehsguide) or [www.epa.gov/pcb](http://www.epa.gov/pcb)
- Call EPA Region 5 at 312-886-7890 or 800-621-84311

# Waste Regulations 101

## Scrap Tires

Regulated by Part 169 of Act 451

Requirements for scrap tire generators include:

- Store tires safely at the location of generation
- Ensure scrap tires are taken to a registered tire collection site
- Use only registered hauler
- Obtain and keep copies of scrap tire manifests

# Waste Regulations 101

## Scrap Tires

Can look up registered haulers and collection sites at [www.michigan.gov/scraptires](http://www.michigan.gov/scraptires)

Can self transport up to 10 tires without a manifest to a registered collection locations

See Chapter 2, Section 2.2.2 of guidebook at [www.michigan.gov/ehsguide](http://www.michigan.gov/ehsguide)



# Waste Regulations 101

## Medical Waste

Regulated under Part 138 of Act 368, Michigan Public Health Code

Includes infectious biohazardous waste like:

- Blood and body fluids from human and animals
- Pathological waste like organs and tissue
- infectious agents like live or attenuated viruses in vaccinations
- Sharps or needles and scalpels



# Waste Regulations 101

## Medical Waste

Medical waste does not include pharmaceuticals unless they contain live or attenuated vaccines in which case they're dual/mixed waste

Many agencies regulate medical waste, including

- DEQ – Regulates how producers must manage medical waste from point of generation to disposal
- U.S. EPA – Produces guidelines for land disposal and requires air permitting for incineration

# Waste Regulations 101

## Medical Waste

Many agencies regulate medical waste, including

- MSP/U.S. DOT – Specifies packaging, labeling, securing and shipping documents for safe transport
- MIOSHA – Specified work protections for handling of blood borne infection materials

# Waste Regulations 101

## Medical Waste

Medical Waste Regulatory Act requires:

- Producer registration every 3 years
- Medical Waste Management Plan
- Employee training records
- Proper packaging
- Storage no longer than 90 days
- Shipment records

# Waste Regulations 101

## Radioactive Wastes

- NARM and LLMW wastes are *possibly* exempt from the definition of hazardous waste if certain conditions apply, such as if it meets the acceptance criteria of a low-level radioactive waste disposal facility or eligible NARM waste
- NARM and LLMW waste shall meet or be treated to meet LDR treatment standards

# Waste Regulations 101

## Asbestos

- Used in more than 3000 products over the past 100 years for its insulation and fire protective properties
- Common products include pipe insulation, floor and ceiling tiles, and electrical appliances
- Found in a wide range of settings including industrial and manufacturing, school and universities, and residential properties

# Waste Regulations 101

## Asbestos

- Generally disposed in Type II Municipal Solid Waste landfill if the landfill has been approved to accept asbestos-containing wastes
- Regulated by MIOSHA
- Regulated by Air Quality Division under the National Emission Standards for Hazardous Air Pollutants (NESHAP)

# Waste Regulations 101

## Asbestos

- Asbestos is the general name of a group of minerals with a similar propensity to become airborne and cause damage to lungs. These minerals include Chrysotile, Amosite, and Crocidolite
- Additional information is available through the DEQ's Air Quality Division, NESHAPs Asbestos Coordinator at 517-373-7064

# Waste Management & Regulations Webinar Series

- October 2016 - ReTRAC & Recycle Search Systems & Sorting Recycling Facts from Fiction
- November 2016 - Universal Waste
- December 2016 – Radon in Real Estate
- January 2017 - Waste Characterization & Generator Status
- February 2017 - Used Oil
- March 2017 - Hazardous Waste & Liquid Industrial By-Product Accumulation & Labeling
- April 2017 - Inspections & Recordkeeping

Questions?



Thank you for protecting Michigan's environment!

# Waste Regulations 101

**Thank you!**

If you have any specific questions, please feel free to contact me.

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231-876-4454, or,  
[ferrittoj@michigan.gov](mailto:ferrittoj@michigan.gov)