

# Hazardous Materials



**Shipping and Training  
Requirements**

**When is something “Hazardous”?**



# What Does “Hazardous” Mean?

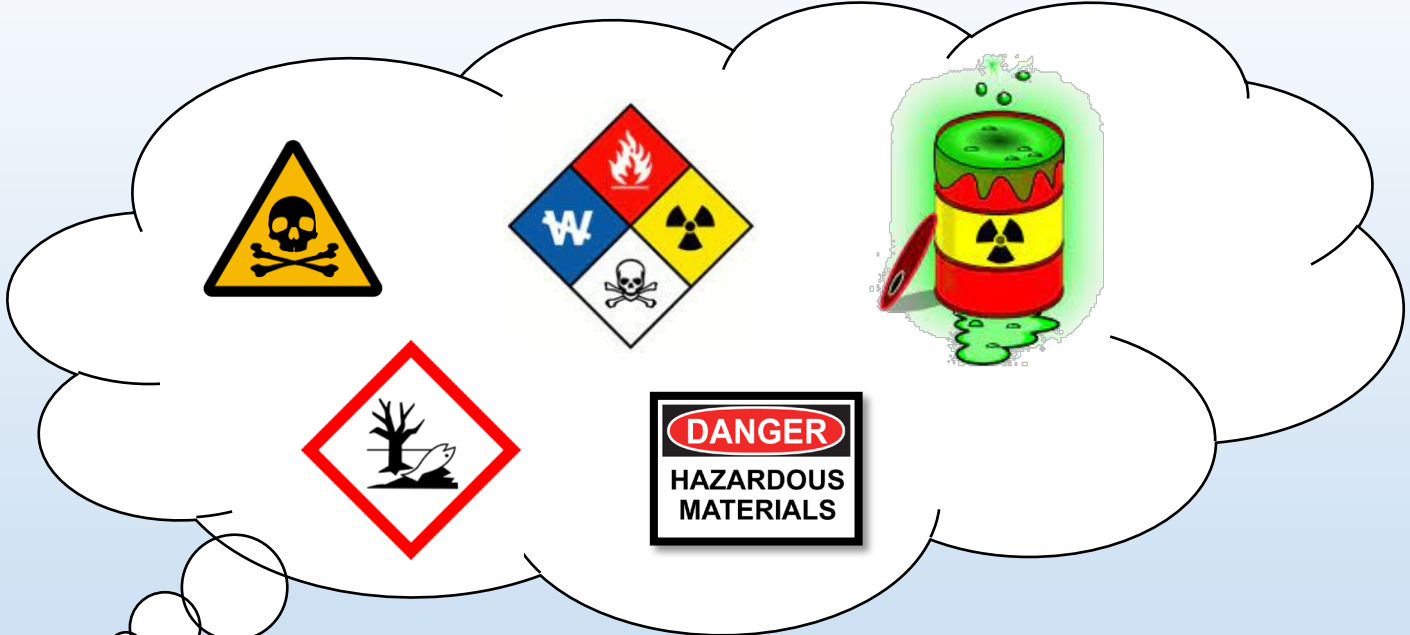


# What Does “Hazardous” Mean?

- Hazardous Materials
- Hazardous Waste
- Hazardous Substances
- Hazardous Chemicals
- Hazardous Air Pollutants
- *Universal Waste\*\*\**

# Who is Regulating it?

- Hazardous Materials  DOT
- Hazardous Waste  EPA
- Hazardous Substances   EPA, CPSC
- Hazardous Chemicals  OSHA® DOL/OSHA
- Hazardous Air Pollutants  EPA
- *Universal Waste*\*\*\*  EPA



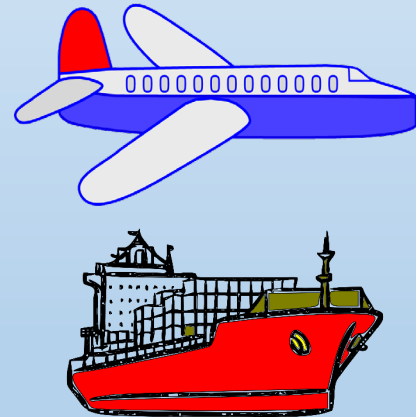
# What do we care [most] about?



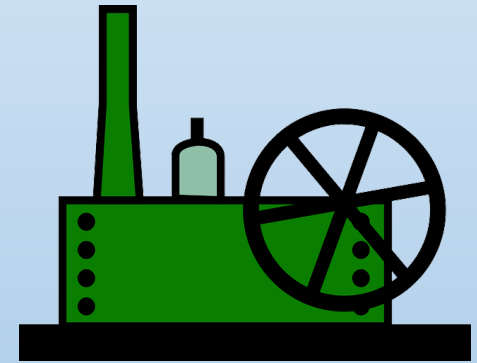
**Collection**



**Packaging**



**Shipping**



**Disposal**

# What do we care [most] about?



**EPA**



**EPA**



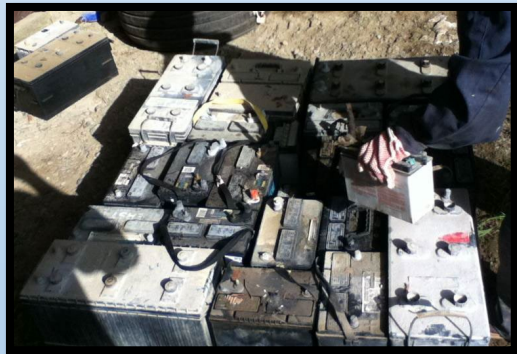
**DOT**



**DOT**



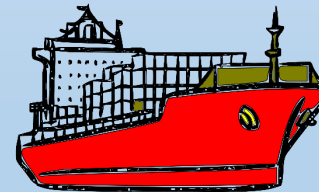
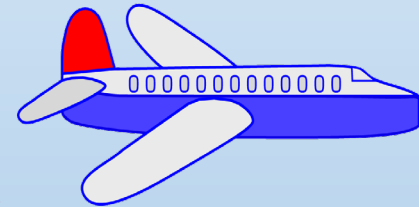
**EPA**



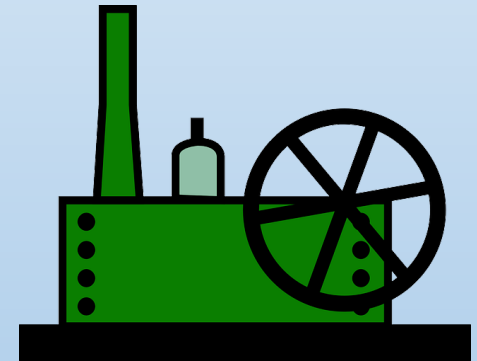
**Collection**



**Packaging**



**Shipping**



**Disposal**



# What do we care [most] about?

## Haz Mat



**US DOT**

## Universal Waste

A rectangular label for universal waste. The top half is purple with the words "UNIVERSAL WASTE" in white, slanted text. Below this is a white section with the heading "GENERATOR INFORMATION (Optional)" and several lines for text entry: "SHIPPER", "ADDRESS", "CITY, STATE, ZIP", "CONTENTS", and "ACCUMULATION START DATE". The bottom half of the label is purple with the words "UNIVERSAL WASTE" in white.

**US EPA**

## Haz Waste

A rectangular label for hazardous waste. The top half is yellow with a red border and the words "HAZARDOUS WASTE" in red. Below this is a white section with the heading "FEDERAL LAWS PROHIBIT IMPROPER DISPOSAL." and the instruction "IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY." Below this is a section for "GENERATOR INFORMATION:" with lines for "NAME", "ADDRESS", "CITY", "STATE", "ZIP", "EPA ID NO.", and "WASTE NO.". There are also lines for "ACCUMULATION START DATE" and "MANIFEST TRACKING NO.". At the bottom, there is a box for "D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX" and the instruction "HANDLE WITH CARE!".

**US EPA**

# What do we care [most] about?

## Haz Mat



**US DOT**

**Shipping**

## Universal Waste

A rectangular label with a purple border and background. The words "UNIVERSAL WASTE" are written in white on a purple background at the top. Below this is a white box with the text "GENERATOR INFORMATION (Optional)" and several lines for "SHIPPER", "ADDRESS", "CITY, STATE, ZIP", "CONTENTS", and "ACCUMULATION START DATE". The words "UNIVERSAL WASTE" are also written in purple at the bottom.

**US EPA**

**Disposal**

## Haz Waste

A rectangular label with a yellow background and a red border. The words "HAZARDOUS WASTE" are written in red at the top. Below this is a white box with the text "FEDERAL LAWS PROHIBIT IMPROPER DISPOSAL. IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY." and "GENERATOR INFORMATION:" followed by lines for "NAME", "ADDRESS", "CITY", "STATE", "ZIP", "EPA ID NO.", "EPA WASTE NO.", "ACCUMULATION START DATE", and "MANIFEST TRACKING NO.". At the bottom, it says "D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX" and "HANDLE WITH CARE!".

**US EPA**

**Disposal**

# Where Do I Fit In???



## Universal Waste



## Hazardous Waste

Small Quantity Handler of Universal Waste (SQHUW)	Large Quantity Handler of Universal Waste (LQHUW)	Very Small Quantity Generator (VSQG)	Small Quantity Generator (SQG)	Large Quantity Generator (LQG)
Universal Waste Transporters		Hazardous Waste Transporters		
Universal Waste Destination Facility		Transfer Facility	Treatment, Storage and Disposal Facilities	

# Where Do I Fit In???



## Universal Waste



## Hazardous Waste

<p>Small Quantity Handler of Universal Waste (SQHUW)</p>	<p>Large Quantity Handler of Universal Waste (LQHUW)</p>	<p>Very Small Quantity Generator (VSQG)</p>	<p>Small Quantity Generator (SQG)</p>	<p>Large Quantity Generator (LQG)</p>
<p>Universal Waste Transporters</p>		<p>Hazardous Waste Transporters</p>		
<p>Universal Waste Destination Facility</p>		<p>Transfer Facility</p>	<p>Treatment Storage and Disposal Facilities</p>	

**UNIVERSAL**

**WASTE**

GENERATOR INFORMATION (Optional)

SHIPPER \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_

CONTENTS \_\_\_\_\_

ACCUMULATION START DATE \_\_\_\_\_

**UNIVERSAL WASTE**

# Why Manage as Universal Waste?



*Much easier management of materials that would otherwise be Hazardous Wastes*

# Why Manage as Universal Waste?

## *The EPA wants too...*

- *Promote Recycling of these wastes*
- *Ease regulation burdens*
- *Keep these waste out of landfills*

# Universal Waste

## *Universal Waste (Federal)...*

- Fluorescent Lamps
- Mercury containing devices
- Batteries
- Pesticides
- Aerosols
- ...coming soon – EWASTE! (State specific)



# Universal Waste

## *Universal Waste (Federal)...*

- Sound packaging
- Prevent leaks if items break
- Remained closed
- Be marked & labeled

# Where Do I Fit In???



## Universal Waste

<b>Small Quantity Handler of Universal Waste (SQHUW)</b>	<del>Large Quantity Handler of Universal Waste (LQHUW)</del>
<del>Universal Waste Transporters</del>	
<del>Universal Waste Destination Facility</del>	

# Other Important Requirements



## Small Quantity Handler of Universal Waste (SQHUW)

SQHUW Requirements		Avoid these requirements if you maintain SQHUW Status
<b>Quantity Handled by Category</b> <a href="#">40 CFR §273.9</a>	Accumulate <i>less than</i> 11,000 lbs (5,000 kg) onsite at any one time	<ul style="list-style-type: none"> <li>• Facility EPA ID Number</li> <li>• HazWaste Manifesting</li> <li>• Maintaining Shipping Records</li> </ul>
<b>On-Site Accumulation Limit</b> <a href="#">40 CFR §273.9</a>	<i>Less than</i> 11,000 lbs (5,000 Kg)	
<b>Storage Time Limit</b> <a href="#">40 CFR §273.15</a> (without a storage permit)	1 Year	
<b>Personnel (Employee) Training</b> <a href="#">40 CFR §273.16</a>	1) Proper handling and 2) Emergency procedures	

# HAZARDOUS WASTE

FEDERAL LAWS PROHIBIT IMPROPER DISPOSAL.

IF FOUND, CONTACT THE NEAREST POLICE OR  
PUBLIC SAFETY AUTHORITY, OR THE  
U.S. ENVIRONMENTAL PROTECTION AGENCY.

**GENERATOR INFORMATION:**

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

EPA ID NO. \_\_\_\_\_ EPA WASTE NO. \_\_\_\_\_

ACCUMULATION START DATE \_\_\_\_\_ MANIFEST TRACKING NO. \_\_\_\_\_

[ \_\_\_\_\_ ]  
[ \_\_\_\_\_ ]  
[ \_\_\_\_\_ ]  
[ \_\_\_\_\_ ]

D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX

**HANDLE WITH CARE!**

# Considerations

## Things to consider when dealing with Hazardous Wastes

- Sorting & packaging is complex
- Shipping & disposal is expensive
- Planning takes a lot of time
- Will likely need outside assistance
- Increased risks  
(health, safety, environment, etc.)



# Where Do I Fit In???



## Hazardous Waste

<b>Very Small Quantity Generator (VSQG)</b>	<del>Small Quantity Generator (SQG)</del>	<del>Large Quantity Generator (LQG)</del>
<del>Hazardous Waste Transporters</del>		
<del>Transfer Facility</del>	<del>Treatment Storage and Disposal Facilities</del>	

# Important Requirements



## Very Small Quantity Generator (VSQG)/HHW

VSQG Requirements		Avoid these requirements if you maintain VSQG Status
<b>Quantity Handled by Category</b> <a href="#">40 CFR §260.10</a>	<i>Less than</i> 220 lbs (100 kg) per month, and <i>Less than</i> 2.2 lbs (1 kg) per month of acute hazardous waste	<ul style="list-style-type: none"> <li>• Facility EPA ID Number</li> <li>• HazWaste Manifesting</li> <li>• Formal Contingency/Emergency Response Plans</li> <li>• Accumulation Requirements</li> <li>• Reporting</li> <li>• Recordkeeping</li> </ul>
<b>On-Site Accumulation Limit</b> <a href="#">40 CFR §262.14(a)(3) &amp; (4)</a>	<i>Less than</i> 2,200 lbs (1,000 kg) <i>Less than</i> 2.2 lbs (1 kg) of acute hazardous wastes	
<b>Storage Time Limit</b> (without a storage permit)	None	
<b>Pre-Transport Requirements</b> Package and label hazardous waste for shipment	Must comply with applicable DOT HazMat requirements	



**US DOT**

## **Also Remember...**

***You have to comply with DOT Regulations too!!!***



# Contact Us



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