

# Universal Waste



**ENVIRONMENTAL  
QUALITY**  
WASTE MANAGEMENT & RADIATION CONTROL

# Universal Waste Rules are Alternative Management Practices for Specific Hazardous Wastes

- \* Regulations found in R315-273
- \* Not Counted in Monthly Hazardous Waste Generation Amount
- \* Container Must Be Closed and Labeled
- \* Can Be Accumulated Onsite for One Year



**WASTE MANAGEMENT  
& RADIATION CONTROL**

<b>UNIVERSAL WASTE</b>
CONTENTS _____
ACCUMULATION START DATE _____
SHIPPER _____
ADDRESS _____
CITY, STATE, ZIP _____

# Facilities Can Be Handlers, Transporters, or Destination Facilities

- \* Small Quantity Handlers
- \* Large Quantity Handlers
  - \* Employee Training
- \* Universal Waste Transporters
- \* Destination Facilities



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<b>UNIVERSAL WASTE</b>
CONTENTS _____
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# Six Categories of Universal Waste in Utah

- 1) Batteries
- 2) Pesticides
- 3) Mercury-Containing Equipment
- 4) Lamps
- 5) Antifreeze
- 6) Aerosol Cans



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CONTENTS _____
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# Battery Basics

- Provides Definition of Battery
- Spent Lead Acid Batteries
- Does Not Apply to Batteries Not Yet a Hazardous Waste
- Managed to Prevent Releases



# Regulations Allow Specific Treatments for Batteries

- Removal of Electrolyte
- Sorting by Type and Mixing in Containers
- Removing Electrical Charge (Discharging)
- Regenerating
- Disassembling
- Removing from Consumer Products



# Battery Labeling Requirements

- Individual Batteries or Containers of Batteries Must be Labeled
  - Universal Waste - Battery(ies)
  - Waste Battery(ies)
  - Used Battery(ies)





Universal Waste  
Used Batteries  
5-19-14

Universal Waste  
Used Batteries  
Sage







# Pesticide Basics

- Defines Pesticides
- Recalled or Unused Pesticides
- Does not Apply to Pesticides Disposed by Farmers
- Does Not Apply to Pesticides Not a Waste or Hazardous Waste
- Managed to Prevent Releases



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# Pesticide Labeling Requirements

- Containers, Tanks, and Transport Vehicles Containing Pesticides Must be Labeled
  - Label That Was on or Accompanied the Product
  - Universal Waste-Pesticide(s)
  - Waste-Pesticide(s)



# Mercury-Containing Equipment Basics

- Defines Mercury-Containing Equipment
- Defines Thermostat
- Does Not Apply to Mercury-Containing Equipment Not a Waste or Hazardous Waste
- Does Not Apply to Devices Where Mercury-Containing Components Have Been Removed



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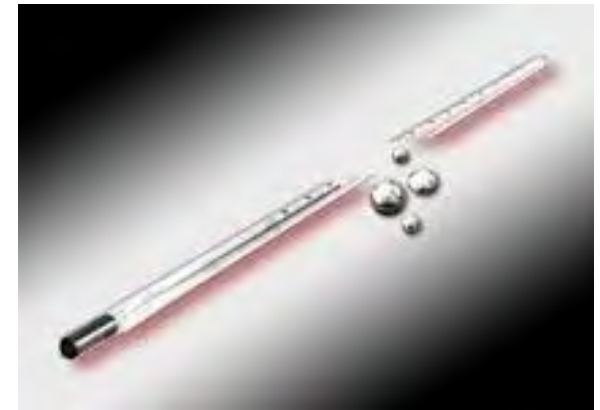


# Mercury-Containing Equipment Handling

- **Managed to Prevent Releases**
- Ampules may be Removed Under Certain Conditions
- Devices Without Ampules Must be Sealed
- Waste Generated from Removal Activities Must be Managed Appropriately



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# Mercury-Containing Equipment Labelling

- Each Device or Containers of Devices Must be Labeled
  - Universal Waste-Mercury Containing Equipment
  - Waste Mercury-Containing Equipment
  - Used Mercury-Containing Equipment
- Each Thermostat or Containers of Only Thermostats Must be Labeled
  - Universal Waste-Mercury Thermostat(s)
  - Waste Mercury Thermostat(s)
  - Used Mercury Thermostat(s)



# Lamps and Lamp Crushers Basics

- Defines Lamps
- Defines Drum-top Lamp Crusher
- Does Not Apply to Lamps Not a Waste or Hazardous Waste
- Managed to Prevent Releases
- Crushed Lamps Managed as Universal Waste



# Drum Top Lamp Crushing is Generally Not Recommended

- Utah Specific Requirement
- Registration Required
  - Application Form
    - Multiple Regulated Operating Conditions
    - Additional Employee Training
    - Additional Record Keeping
    - Must Establish A Closure Plan
    - Must Establish Financial Assurance





# Lamp Labeling

- Individual Lamps or Containers of Lamps Must be Labeled
  - Universal Waste-Lamp(s)
  - Waste Lamp(s)
  - Used Lamp(s)



**UNIVERSAL WASTE**  
CONTENTS: Metal Halide Bulbs  
ACCUMULATION START DATE: 12/1/16  
SHIPPER: ETC, INC  
ADDRESS:  
CITY, STATE, ZIP:

**UNIVERSAL WASTE**  
UNIVERSAL WASTE

~~07-01-2017~~  
**MERCURY VAPOR  
FLUORESCENT  
LAMPS**



**DIRECTIONS**  
Step 1 - Open on top & fill in  
Step 2 - Seal bottom flap with 2"  
Step 3 - Seal bottom flap with 2"  
Step 4 - Seal bottom flap with 2"  
Step 5 - Seal bottom flap with 2"  
Step 6 - Seal bottom flap with 2"  
Step 7 - Seal bottom flap with 2"  
Step 8 - Seal bottom flap with 2"  
Step 9 - Seal bottom flap with 2"  
Step 10 - Seal bottom flap with 2"

**DO NOT CUT  
FRAGILE  
DO NOT DR**

**GLASS  
HANDLE WITH CARE**

CleanE  
1-800-235-2355  
40120 8071  
USA 148821  
NON-REUSABLE  
CONTAINER

8-FOOT U.N. RATED BULB-PAK

**U  
FLU**



UNIVERSAL WASTE  
MERCURY CONTAINING LAMPS FOR RECYCLING

ACCUMULATION DATE: 08/11/2015



Kit Rail / BRKT Kit Adpt  
mnt ChAm

33056Y

BRKT mdl 19  
Lmt wire

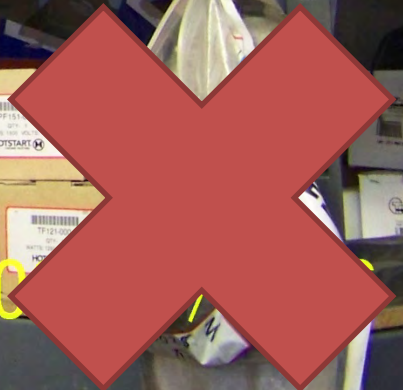
15011  
IMP Kit-lie Pft w/Gray  
Brkt

30700-3  
Grnt mdl 3obalk

LMP-ME-mdl  
15 Rail mnt



EL22040  
4411  
HOISTART



# Antifreeze Basics

- Utah Specific Rule
- Defines Antifreeze
- Does Not Apply to Antifreeze Not a Waste or Hazardous Waste
- Managed to Prevent Releases



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# Antifreeze Labeling

- Containers Tanks and Transport Vehicles Containing Antifreeze Must be Labeled
  - Universal Waste-Antifreeze



# Aerosol Cans Basics

- Previously Utah Specific Rule
- Defines Aerosol Can
- Does Not Apply to Aerosol Cans Not a Waste or Hazardous Waste
- Managed to Prevent Releases



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# Provisions for Puncturing Aerosol Cans

- Aerosol Cans may be Punctured
  - Manner Designed to Prevent Release
  - Written Procedures
  - Spill Kit Available
  - Can Contents Transferred to Proper Container
  - Area Well Ventilated
  - Employees Trained
- Manage Generated Waste Properly



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# Aerosol Can Labeling

- Individual Cans or Containers of Cans Must be Labeled
  - Universal Waste-Aerosol Can(s)
  - Waste Aerosol Can(s)





**96 Aerosol Can Recycler Installation and Use**

**Installation:**

1. Remove the top cap and the top filter.
2. Insert the top filter into the top cap.
3. Insert the top cap into the top of the recycler.
4. Tighten the top cap.
5. Insert the bottom filter into the bottom of the recycler.
6. Tighten the bottom filter.

**How to Use:**

1. Place the aerosol can in the recycler.
2. Push down on the handle.
3. The can will be crushed and the contents will be recycled.

**Safety:**

- Do not use the recycler for anything other than aerosol cans.
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- Do not use the recycler for anything other than aerosol cans.

**Maintenance:**

- Check the filters regularly.
- Check the filters regularly.
- Check the filters regularly.

**Compliance:**

- Complies with EPA regulations.
- Complies with EPA regulations.
- Complies with EPA regulations.



# Thanks!



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