

Advanced Hazardous Waste Generator Workshop 2013



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WORKSHOP OVERVIEW

- ❖ Will discuss advanced topics in hazardous waste (HW) management, including:
 - Globally Harmonized System (GHS)
 - e-Manifesting
 - Product versus waste
 - RCRA training versus other training
 - Electronic recordkeeping
 - Finding things on KDHE's website
- ❖ Opportunity for questions

Globally Harmonized System (GHS)

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS) is a worldwide initiative to promote standard criteria for classifying chemicals according to their health, physical and environmental hazards.

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Globally Harmonized System (GHS)

GHS uses the following to communicate hazard information on product labels and safety data sheets (SDS):

- Pictograms
- Hazard Statements
- Signal Words

The primary goal is better protection of human health and the environment.

Pictogram

A symbol inside a diamond with a red border, denoting a particular hazard class (e.g., acute toxicity/lethality, skin irritation/corrosion, etc.). A few examples:



This is the symbol that will appear on chemicals that are acutely hazardous to fish, crustacea, or aquatic plants.



This is the symbol that will appear on chemicals that are flammable.



This is the symbol that will appear on chemicals that are acutely toxic.



This is the symbol that will appear on chemicals with less severe toxicity.

Signal Word

One word that is used to indicate the relative severity of hazard and alert the reader to a potential hazard on the label and safety data sheet. The GHS includes two signal words:

- “Warning” for less severe hazard categories and;
- “Danger” for more severe hazard categories.
- “Caution” – EPA may also use this as a third signal word.

Hazard Statement

Phrase assigned to each hazard category that describes the nature of the hazard.

Examples of hazard statements are:

- “Harmful if swallowed”
- “Highly flammable liquid and vapor”
- “Harmful to aquatic life.”

SAFETY DATA SHEETS

- 16 Sections of specific information presented in a defined order:
 1. Identification
 2. Hazard(s) identification
 3. Composition/information on ingredients
 4. First-aid measures
 5. Fire-fighting measures
 6. Accidental release measures
 7. Handling and storage
 8. Exposure controls/personal protection
 9. Physical and chemical properties
 10. Stability and reactivity
 11. Toxicological information
 12. Ecological information
 13. Disposal considerations
 14. Transport information
 15. Regulatory information
 16. Other information

PRODUCT LABELS

Requirements for product labels include the following:

- Chemical Identity
- Standardized Hazard Statements
- Signal Words
- Symbols or Pictograms
- Precautionary Statements
- Supplier Identity

e-Manifesting Update

On October 5, 2012, President Obama signed into law the “Hazardous Waste Electronic Manifest Establishment Act.”

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e-Manifesting Update

Milestones for EPA Actions:

- The electronic manifest (e-Manifest) system must be operating within three years after the Act is passed.
- The EPA must issue regulation authorizing use of e-manifests within one year after the Act is passed (2013).
- The EPA must establish a System Advisory Board within three years after the Act is passed in order to advise the EPA on system performance and user fees.

e-Manifesting Update

Scope Provisions:

- e-Manifest extends to all federally- and state-regulated wastes requiring manifests.
- Allows that the use of e-manifests is optional for users, and authorizes centralized collection of data from electronic and paper manifests.

e-Manifesting Update

Fee and Spending Provisions:

- Authorizes the EPA to collect reasonable user fees for all system related costs including development and maintenance.
- EPA expects to set initial fees in 2014 rulemaking.

e-Manifesting Update

Oversight:

- EPA must conduct annual Inspector General (IG) audits and submit biennial reports to Congress.

Consistency:

- EPA must establish a uniform effective date in all states for e-Manifest, and must implement e-Manifest until States are authorized.

Product versus Waste

- Not always easy to differentiate
- Waste doesn't have to be used or spent
- Expiration dates aren't always an indicator

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Product versus Waste

Product is something that will be used or sold or given away for use.

Waste is something that has no value, is not useable in its existing state, or that the generator has determined is a waste.

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Waste-like

May be asked to show value or use if:

- The material is expired
- The material has changed physical state or separated
- The material has physical contaminants such as leaves, dirt, or other debris
- The container has been compromised
- The container is labeled or marked “waste”, “discontinued”, “dispose”, etc.
- The material or container is not being stored with other similar materials or is not stored like a valuable commodity

Waste-like Photos



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Waste-like Photos



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Waste-like Photos



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RCRA versus Other Training

RCRA Training:

- Provides employees with training on their hazardous waste management duties
- Must include site-specific training
- Can overlap between 8-hour HAZWOPER refresher and RCRA training

Other types of training (including 8-hour HAZWOPER refresher) do not focus on hazardous waste so cannot be used in place of RCRA training.

RCRA versus Other Training

Health and Safety Training:

- Training is focused on employee safety in the workplace.
- The topics vary depending on the type of workplace. May include fire safety, lockout/tagout, accident prevention, confined space, chemical safety, hazardous materials, etc.

RCRA versus Other Training

Hazardous Materials (Hazmat) Training:

- Typically includes DOT labeling, marking, and shipping papers (manifests), and may include material characteristics.
- Includes hazards from materials in the workplace and personal protection measures.

Electronic Recordkeeping

Many records can be created and/or maintained electronically including:

- Manifests
- Weekly/monthly inspections
- Waste determinations
- Training Records

Electronic Recordkeeping

- Records can be scanned into an electronic format if they were not originally created electronically
- Records must be produced on demand during an inspection
- Both EPA and KDHE expect records to be produced by the end of the inspection

Electronic Recordkeeping

- Emergency preparedness and procedures documents cannot be maintained solely electronically, and must be maintained in hard copy at the facility, these include:
 - Information that must be posted by a telephone (KSQG and SQG)
 - Contingency plan (LQG)

Finding things on KDHE's website

- KDHE homepage: <http://kdheks.gov/>

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Kansas
Department of Health and Environment

Sam Brownback, Governor
Robert Moser, MD, Secretary

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EXTREME HEAT CAUSES MORE DEATHS
each year than hurricanes, lightning, tornadoes, earthquakes and floods
COMBINED!

What can you do?
☀ Stay Cool
💧 Stay Hydrated
📢 Stay Informed

Public Health
Child Care, Family Health, Tobacco, Immunization, Vital Statistics, Flu, WIC, Disease, HIV/AIDS, STDs, more...

Laboratories
Blood Lead, Chemistry, Microbiology, Radiochemistry, Neonatal, Virology/Serology, more...

Environment
Air, Water, Waste Management, Remediation, Field Services, more...

Health Care Finance
Medicaid, State Employee Health Plan, HealthQuest, Electronic Health Records, more...

KDHE Data & Reports
2012 Annual Report
Cumulative Case Reports of Disease by County

Administration
Office of the Secretary
Center for Health Equity
Center for Performance Management
Legislative Testimony & Reports

People Want to Know
2013 Kansas Environmental Conference
Air Permitting
Blue Green Algae
Birth/Death/Marriage Certificates
Careers at KDHE
Child Care Facilities
Disaster Recovery
Emergency Preparedness
Health Care Facilities
Immunization Records

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Finding things on KDHE's website

- BWM homepage: <http://www.kdheks.gov/waste/index.html>

Kansas
Department of Health and Environment

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Bureau of Waste Management (BWM)

Waste Management

A to Z Topic Listing

Bill Bider, Director
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Topeka, KS 66612-1366

Mission - To minimize the health and environmental impact associated with the generation, storage, transportation, treatment, and disposal of all solid and hazardous wastes in Kansas.

Compliance, Assistance, & Enforcement

- Accredited Environmental Laboratories
- City Dump Cleanup Program
- Compliance Assistance Visits Program
- Solid & Hazardous Waste Compliance Documents
- Illegal Dump Program

Composting

- Composting at Livestock Facilities Information Sheet
- Composting Forms

Hazardous Waste Program

- EPA's RCRAInfo Database
- Hazardous Waste Fees

Hazardous Waste Permitting

- Hazardous Waste Fees
- HW Public Notices
- HW Fact Sheets

Waste Mgmt Links

- 2013 WORKSI Conference Presentations
- Accredited Environmental Laboratories
- BWM Quality Assurance Management Plan
- Contact Us
- Disposal Without a Permit
- EPA's RCRAInfo Database
- Foms**
- Generator Liquid Waste Profile Sheet
- Get Caught Recycling
- Kansas County SW Management Responsibilities Guide
- Kansas Green Teams
- Kansas E-Waste
- Kansas Recycles

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Finding things on KDHE's website

Compliance, Assistance, & Enforcement

- Accredited Environmental Laboratories
- City Dump Cleanup Program
- Compliance Assistance Visits Program
- Solid & Hazardous Waste Compliance Documents
- Illegal Dump Program

- First bullet is a link to the KDHE certified lab database.
- Fourth bullet links to several useful documents (see next slide)

Finding things on KDHE's website

The screenshot shows the KDHE website interface. At the top, there is a navigation bar with tabs for Home, Public Health, Environment, Health Care Finance, Laboratories, and News. Below this is a blue banner with the text "BWM - Bureau of Waste Management Solid & Hazardous Waste Compliance Documents" and social media icons for Facebook, Twitter, YouTube, RSS, and another Facebook icon. The main content area features a search box on the left with the text "A to Z Topic Listing" above it. To the right of the search box is the main heading "Bureau of Waste Management Solid & Hazardous Waste Compliance Documents" in green. Below the heading is a vertical list of navigation items on the left and a horizontal list of content items on the right. At the bottom of the content area, there is a copyright notice and a list of links.

Home Public Health Environment Health Care Finance Laboratories News

BWM - Bureau of Waste Management Solid & Hazardous Waste Compliance Documents

A to Z Topic Listing

**Bureau of Waste Management
Solid & Hazardous Waste Compliance
Documents**

Waste Home

Compliance, Assistance, & Enforcement

Composting

Hazardous Waste Generator Program

Hazardous Waste Permitting

Household Hazardous Waste

Regulations, Policies, & Technical Guidance

Reports, Publications, & Newsletters

Solid Waste Permitting

Waste Reduction, Public Education, & Grants

Waste Tire Program

Kansas Statutes and Regulations

Hazardous Waste Generator Handbook

Solid Waste Checklists

Hazardous Waste Checklists

Used Oil Checklists

Forms and Examples

Penalty Matrices

BWM/DOE Policies

BWM Technical Guidance Documents

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Finding things on KDHE's website

Hazardous Waste Program

- [EPA's RCRAInfo Database](#)
- [Hazardous Waste Fees](#)
- [Hazardous Waste & Used Oil Forms](#)
- [Hazardous Waste Generator Handbook](#)
- [Hazardous Waste Generator Workshop](#)

Regulations, Policies, & Technical Guidance

- [Policies](#)
- [Proposed Regulations](#)
- [Statutes and Regulations](#)
- [Technical Guidance Documents](#)

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CONTACT INFO

- BWM web site:
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Questions



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www.kdheks.gov

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