Retail Environmental Workgroup

May 27, 2016





Michigan Pharmaceutical **Environmental** DE Disposal Regulations Webinar

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Housekeeping

- All lines will be muted
- Questions can be sent to us via the question/chat box
- We will record webinar and post online
- Notes page



Environmental Assistance Center (EAC)

Phone: 1-800-NO2-WASTE

(1-800-662-9278)

Hours: 8:00 AM to 4:30 PM

Monday - Friday

Technical Assistance Services Include:

Air Environmental Audit Privilege

Waste Site Remediation

Water Permit Coordination



Today's Goals

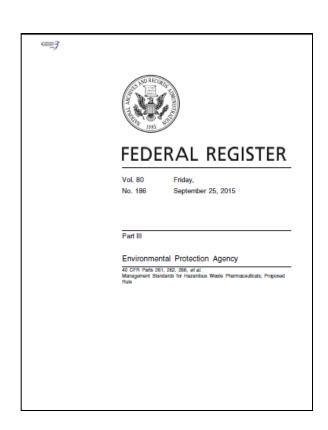
- ✓ Environmental & Public Health Issues
- ✓ Existing Michigan HW Pharmaceutical Rules
- ✓ EPA Proposed Federal HW Pharmaceutical Rule
- ✓ What To Expect



Why Cover Proposed Rule

Changes are Extensive:

- Establishes entirely new management standard
- Prohibits sewering all HW pharmaceuticals
- Proposed to require MI abandon current regulations





Environmental & Public Health Issues









An Emerging Contaminant

First detected at low levels in Dead Sea in 1970's



Studies continue to show they are ubiquitous globally and persistent - see http://toxics.usgs.gov



They are persistent because they are manufactured to be resistant to transformation in water



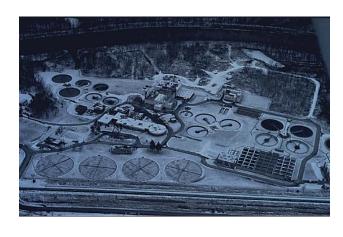


An Emerging Contaminant

Most medications are excreted intact and end up in our WWTPs

WWTPs don't remove drugs

Annually people continue to take more and more drugs



Above - Aerial of a Waste Water Treatment Plant (WWTP)



Left -WWTP Clarification Tank



An Emerging Contaminant

Without change levels will continue to increase

Pharmaceuticals in environment are known to cause adverse impacts to amphibians, fish, and bacteria



Proposed rules memorialize EPA expects pharmaceuticals may cause adverse human health impacts





An Emerging Contaminant

EPA's cites that pharmaceuticals . . .

are intrinsically bioactive compounds able to impact living systems



are known to have adverse side effects that are exacerbated when combined



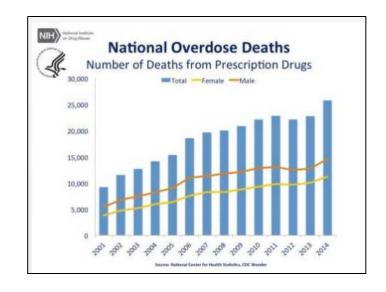
once released to the environment, there is little ability to prevent co-administration



Diversion - A Human Health Crisis

Pharmaceuticals are also . . .

- diverted and abused
- known to result in accidental poisoning
- presently the leading cause of accidental death in the US



Above -Graph shows a 2.8 fold increase in accidental deaths from overdose between 2004 to 2014



What We Can Do Now

- ✓ Manage inventories
- ✓ Incinerate preferred disposal option





It destroys the chemicals and prevents them from cycling in our environment

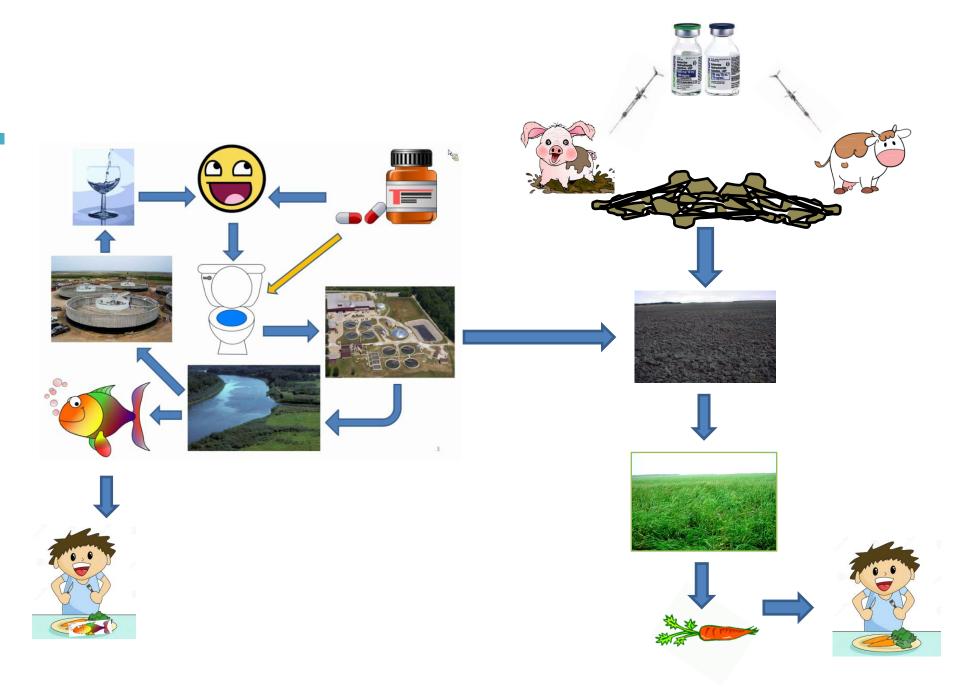


What We Can Do Now

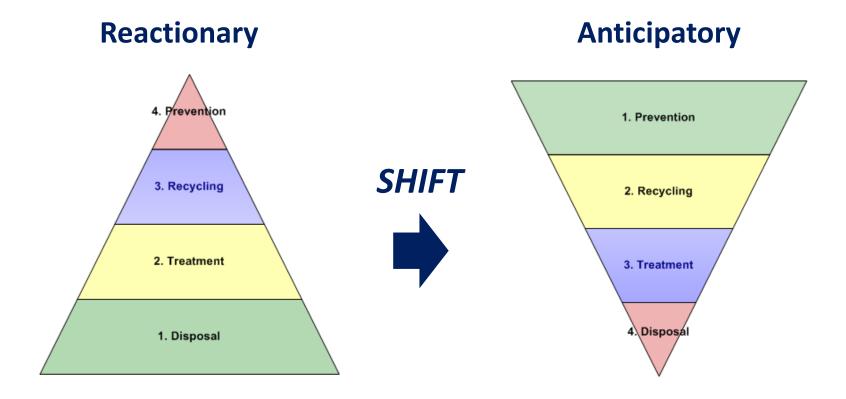
Establish Waste Minimization Policies

- ✓ Manage only what you need
- ✓ Prescribe least eco-toxic drugs
- ✓ Minimize sample inventories
- ✓ Issue sample scripts where possible
- ✓ Issue shorter initial scripts for new prescriptions with undesirable side effects





Paradigm Switch





Existing Environmental Pharmaceutical Disposal Regulations









Existing Waste Regulation

National HW Pharmaceuticals

Hazardous waste regulations require each nonhousehold site generating waste to:

- ✓ characterize their wastes
- ✓ determine the total weight of all hazardous generated monthly
- ✓ determine their legal disposal options



Existing Waste Regulation

Michigan HW Pharmaceuticals

Drugs are generally a ...

✓ Hazardous (Part 111 of characterist

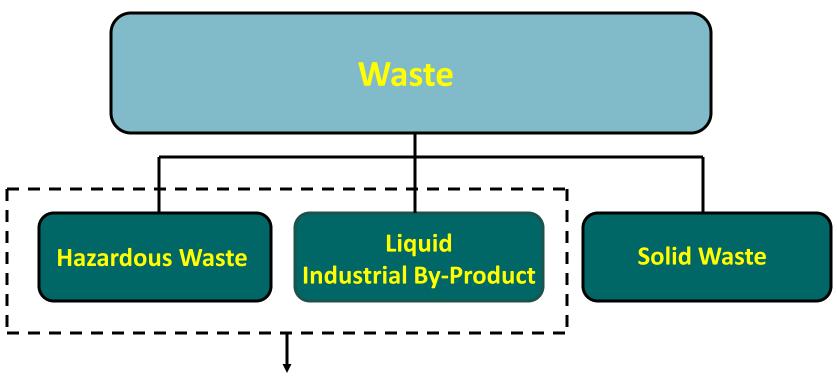
✓ Liquid Indu (Part 121 of RA) - listed or

dous & liquid

✓ Non-Hazardous 30110 waste (Part 115 of Act 451) - not hazardous & solid



Waste Characterization



Non-household waste subject unless excluded:

- Hazardous if listed or characteristic
- Liquid industrial by-product if free liquids

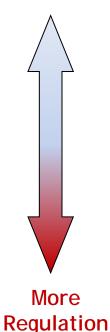


Existing Waste Regulation

National HW Pharmaceuticals

Less Regulation

Hazardous Waste Generator Status:



- ✓ Conditionally Exempt Small Quantity Generator (CESQG)
- ✓ Small Quantity Generator (SQG)
- ✓ Large Quantity Generator (LQG)



Hazardous Waste Generator Status

CESQG

- ✓ Generates < 220 lbs. non-acute HW monthly</p>
- ✓ Generates < 2.2 lbs. acute HW monthly</p>
- ✓ Never accumulates ≥ 2200 pounds nonacute HW
- ✓ Never accumulates ≥ 2.2 lbs. acute HW



Hazardous Waste Generator Status

CESQG exempted HW must be properly disposed under other regulations:

- ✓ Liquid industrial by-product or
- ✓ Solid waste regulations

Need receiving facility that wants it!



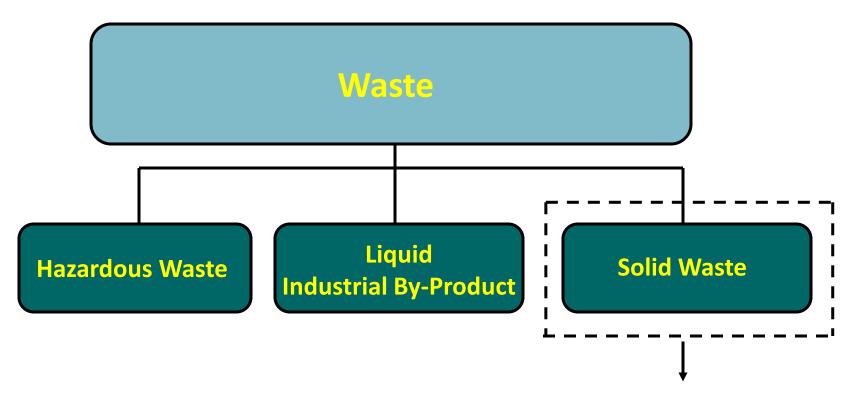
Hazardous Waste Generator Status

CESQG required records include:

- ✓ Waste characterization
- ✓ Generator status verification
- ✓ Special waste approval
- ✓ Disposal records/receipts (solids)
- ✓ Shipping records/manifests (liquids)
- 3 years of records must be maintained



Household Pharmaceuticals



Household hazardous waste liquids and solids = solid waste



Household Takebacks

Diverted Waste Part 115 Section 11521b

- ✓ Household or non-household waste lawfully to landfill or incinerate
- ✓ Separated from other waste
- ✓ Collected at HHW collections
- ✓ Diverted to environmental preferred management option





Household Takebacks

Management Requirements

Diverted waste must be:

- Collected safely, lawfully & by knowledgeable staff
- Collected at a secure location protected from weather, fire, physical damage, and vandals
- Not processed except to ensure safe and efficient transport



Household Takebacks

Management Requirements

Diverted waste must be:

- Managed to prevent release
- Stored < 1 year
- Documented (types, volumes, and disposition)
- If non-household, handled to meet additional CESQG and liquid industrial by-product collection requirements



Existing Waste Regulation

Non-Household Pharmaceuticals

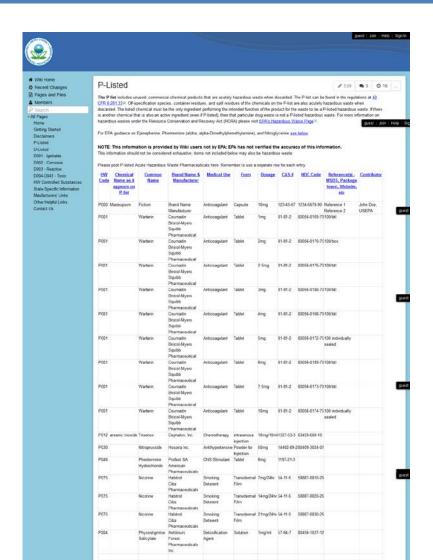
Estimate between 5% to 10% pharmaceuticals are HW:

- ✓ Listed
- ✓ Characteristic
 - Ignitable
- Corrosive

- Toxic

- Reactive

See limited data provided by EPA at http://hwpharms.wikispaces.com/



Ignitable

D001 HW Pharmaceuticals Examples

Disinfectant hand washes

Etoposide (chemotherapy)

Faslodex (chemotherapy)

Paregoric (controlled substance)

Paclitaxel (chemotherapy)

Rubbing alcohol

Nyquil



Toxic & Acutely Toxic

D004 to D043 HW Pharmaceuticals Examples

Afrin - toxic (D009)

Arsenic Trioxide - acutely toxic (P012)



Coumadin (Warfarin <.3%) - toxic (U248)

Coumadin (Warfarin > .3%) - acutely toxic (P001)

Epinephrine (P188)

Nicotine & salts - acutely toxic (P075)

Phentermine HCL (P046)









Corrosive

D002 HW Pharmaceuticals Examples

Wart removers - trichloroacetic acid

Eye medications - acetic and phosphoric acids

Glycopyrrolate

Compounding chemicals like

- Glacial Acetic Acid
- Sodium Hydroxide
- Carbolic acid (liquid phenols)





Reactive

D003 HW Pharmaceuticals

Nitroglycerin - acutely toxic (P081) and reactive (D003)

Clinatest - reactive (D003)

Dry Picric Acid - reactive (D003)



Nitroglycerin Lingual Aerosol 400 mcg/spray

4.1 g Net Contents

Existing Regulation

Universal Waste Pharmaceuticals

HW pharmaceuticals can be managed as Universal Waste (MI & FL only)

Universal Waste standards are streamlined HW standards

Dual Waste - Pharmaceutical waste mixed with medical waste

- ✓ Most expensive
- ✓ Only 90 day storage
- ✓ HW and medical waste regulations apply







Universal Waste Pharmaceuticals

2004 MI established pharmaceuticals as a universal waste type

EPA reauthorized MI program August 28, 2015

Encourage all pharmaceuticals

- ✓ managed as UW (BMP)
- √ incinerated (BMP)



Universal Waste Pharmaceuticals

Benefits:

- ✓ No counting
- ✓ No proving CESQG exempt status
- Less characterization, presume hazardous waste
- ✓ Longer storage time
- ✓ One set of container standards
- ✓ Less training
- ✓ Less containers



Universal Waste Pharmaceuticals

Container and Labeling

- ✓ Compatible with waste
- ✓ Closed except to add/remove



- ✓ Labeled "Universal Waste Pharmaceutical"
- Date container when waste first added



Universal Waste Pharmaceuticals

Storage/Accumulation

- ✓ Secured from weather, fire, physical damage, and vandals
- ✓ Separate incompatible materials
- ✓ Prevent releases
- ✓ Inspected weekly (BMP)
- ✓ Secondary containment (BMP)



Universal Waste Pharmaceuticals

Transportation & Disposal

- ✓ Occur within one year of accumulation
- ✓ Be in compliance with the DOT requirements
- ✓ Accompanied by a "Shipping Document" if liquids
- ✓ May be shipped to universal waste handler
- ✓ Ultimate disposal is licensed HW disposal facility



Universal Waste Pharmaceuticals

Shipping document must include:

- ✓ Generator name and address of
- ✓ Transporter name
- ✓ Waste type and volume shipment
- ✓ Date of generator shipment
- ✓ Designated facility name, address, and Site ID number



Universal Waste Pharmaceuticals

Shipping document must be:

- ✓ Certified by generator
- ✓ Certified by transporter
- ✓ Kept at least 3 years

Receiving facility must:

- ✓ verify they're the listed designated facility
- ✓ notify generator of receipt of shipment



Universal Waste

Pharmaceuticals

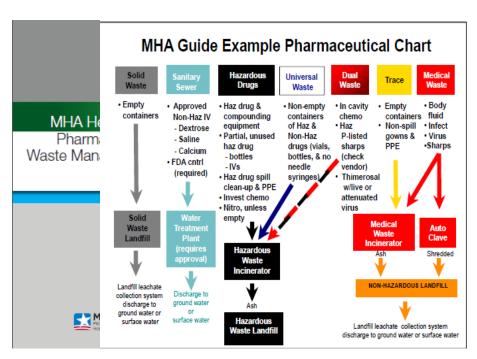
Additional Resources include:

MHA Pharmaceutical Waste Management Guide

MHA Guide Example Posting

Pharmaceutical Tutorial

Universal Waste Guidance



www.michigan.gov/deqdrugdisposal

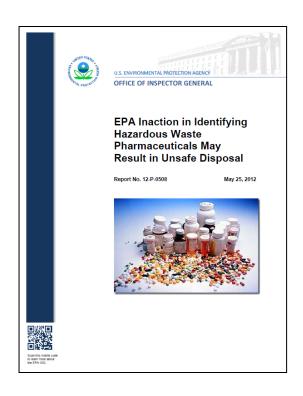


What is Federal HW Pharmaceutical Proposal?



Initial Federal Proposed Rules

- 2008 EPA proposes to establish pharmaceuticals as a federal universal waste type
- 2013 EPA identifies intent to develop a completely different proposal for HW pharmaceuticals "due to substantial negative public comments"

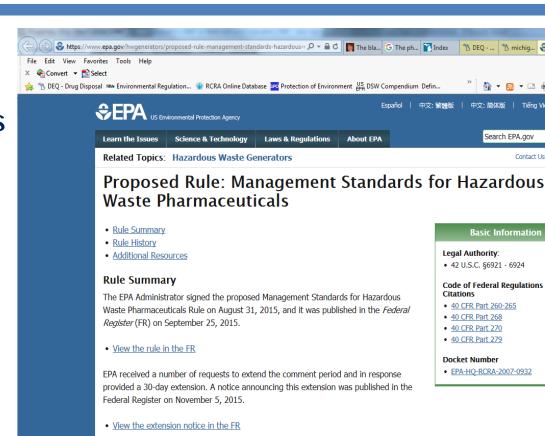




Current Federal Proposed Rules

September 25, 2015 -EPA issued proposed rules requiring Michigan abandon its universal waste designation and establish new healthcare/RD standards

December 24, 2016 - EPA closed public comment



hazardous waste pharmaceuticals is safe and workable within the healthcare setting.

the sink and toilet.

Through this proposal, EPA strives to improve the management hazardous waste pharmaceuticals at healthcare facilities (i

This rule proposes a tailored, sector-specific set of regulations for the management of hazardous waste pharmaceuticals by healthcare facilities (including pharmacies) and reverse distributors. It will provide standards to ensure the management of

In addition, the proposed pharmaceutical rule will make our drinking and surface water safer and healthier by reducing the of pharmaceuticals entering our waterways. Our proposal is projected to prevent the flushing of more than 6,400 tons of hazardous waste pharmaceuticals annually by banning healthcare facilities from flushing hazardous waste pharmaceuticals

Status of Federal Proposed Rules

EPA received over 175 diverse comments from:

Reverse Distributors

States/Government

Retail

Pharmacists

Hospitals

Associations



EPA projects issuance of final rules in Fall 2016



Status of Federal Proposal

When final rulemaking is issued it becomes effective:

- Immediately in all states and territories for sewer ban
- Upon state adoption for all other provisions





Overview

Who is impacted?

1,624 hospitals

142,400 non-hospital healthcare facilities

28 reverse distributors











Purpose

Protect water resources

Provide regulatory relief to healthcare and pharmacies

Authorize reverse distribution practices

Eliminate DEA controlled substance overlap

Formalize adhoc interpretations



EPA Recommendations

Manage all pharmaceuticals, both HW and non-HW pharmaceutical under proposal

Exempted CESQGs opt-in

Incineration of pharmaceuticals unless otherwise prohibited under the land disposal restrictions



Above - Aerial Photo of a Hazardous Waste Incinerator



EPA Primary Goal

Protect water resources by sending most unwanted post manufacture pharmaceuticals for disposals via incineration



Key General Benefits

Divert 6,400 tons of hazardous waste (HW) pharmaceuticals from potentially reaching our water resources to incineration



Novel Provisions

Establishes completely new regulatory scheme nationally for HW pharmaceuticals

- √ 40 CFR Part 266, Subpart P for HW Pharmaceuticals
- ✓ Mandatory for SQGs/LQGS
- ✓ Optional for CESQGs

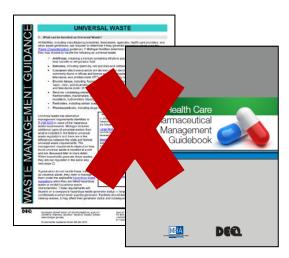


Novel Provisions

Prohibits wasting HW pharmaceutical to sewer



Mandates Michigan abandon pharmaceuticals as a universal waste





Novel Provisions

Concludes that pharmaceutical sent for reverse distribution are waste

Authorizes HW pharmaceutical storage at RD without HW storage license, financial assurance, or corrective action





Key General Provisions

Establishes separate management requirements for

- Potentially Creditable HW Pharmaceuticals" in RD
- "Non-Creditable HW Pharmaceuticals" being disposed by Healthcare
- Evaluated HW Pharmaceuticals being disposed by RD









Key Reverse Distributor Benefits

Assigns value to RD pharmaceuticals for

- ✓ manufacture assigned credit
- ✓ street value for non-controlled pharmaceuticals

Authorizes HW pharmaceutical storage at RD without HW storage license, financial assurance, or corrective action obligation



Healthcare Defined

Healthcare is specifically defined as any person that

- provides preventative, diagnostic, therapeutic, rehabilitative, maintenance or palliative care, and counseling, service, assessment or procedure with respect to the physical or mental condition, or functional status, of a human or animal or that affects the structure or function of the human or animal body
- sells or dispenses over-the-counter or prescription pharmaceuticals.



Healthcare Defined

Healthcare includes:

- Independent dental, veterinary, and medical offices
- Hospitals, medical and veterinary
- Health clinics
- Surgical clinics
- Chemotherapy clinics
- Coroners offices NEW
- Adult care facilities NEW





Healthcare Defined

Healthcare is defined to include all pharmacies, including:



- Retail brick and mortar pharmacies
- Mail order pharmacies
- Compounding pharmacies
- Long term care pharmacies





Reverse Distributor (RD) Defined

Any person that receives and accumulates potentially creditable hazardous waste pharmaceuticals for the purpose of facilitating or verifying manufacturer's credit



Pharmaceutical Defined

Generally includes any chemical formulation intended to:

- diagnosis, cure, mitigate, care for, treat, or prevent disease or injury or
- formulated to effect the structure or function of the body of a human or other animal







Pharmaceutical Defined

Pharmaceuticals includes:

- Prescription & OTC drugs
- Dietary supplements
- DEA controlled substances unless managed to meet exemption
- Contaminated PPE NEW
- Pharmaceutical spill clean-up NEW







Pharmaceutical Defined

Pharmaceuticals do not include:

- Medical waste
- R & D pharmaceuticals
- Pharmaceutical manufacture waste
- Exempt DEA pharmaceuticals NEW
- Exempt "empty" containers and syringes - NEW

Rule of Thumb: Includes any formulation with a Drug Fact label









Empty

Current federal rules

 Container residues are acute listed HW, unless triple-rinsed or cleaned by an equivalent method



 Long standing EPA policy that vials, dixie cups, soufflé cups, blister packs are not empty once dose is administered



Clarify Empty

Proposed federal rules:

Unit-dose containers/devices (packets, cups, blister packs) and dispensing bottles (vials up to 1 liter or 1000 pills) are empty and exempt if:

✓ All content is fully dispensed (rendering the container "RCRA empty") AND

✓ Container is destroyed to prevent diversion (e.g., crushed) - NEW



Clarify Empty

Proposed federal rules



<u>Dispensed syringes</u> are RCRA empty and exempt if:

- ✓ The syringe has been used to administer the pharmaceutical to a patient, AND
- ✓ The syringe is placed in a sharps containers that is managed appropriately



Clarify Empty

All other containers, including delivery devices, that once held listed P or U or exhibit a characteristic, must be managed as hazardous waste, including:

- ✓ IV bags and tubing
- ✓ Nebulizers
- ✓ Ointment tubes



Eliminate DEA Overlap

Examples of current dually regulated pharmaceuticals by EPA and DEA include:



- Chloral hydrate (U034)
- Fentanyl sublingual spray (D001)
- Phenobarbital (D001)
- Valium injectable (D001)
- Testosterone gels (D001)



Eliminate DEA Overlap

Current - Meet both DEA and HW

Proposed - Exempt controlled if managed to meet DEA regulations and incinerate at:

- ✓ a licensed municipal solid waste incinerator or
- ✓ a licensed hazardous waste incinerator



Above: Municipal solid waste incinerator



Clarifies HW Status of Specific Pharmaceuticals

Epinephrine salts are not P-listed wastes

Phentermine salts are not P-listed wastes

Federal register sought comment on HW status of nicotine patches, gum, lozenges as acutely hazardous



Includes HW pharmaceuticals that have the potential to receive manufacturer credit



Must:

- Be unused/un-administered
- <1 year of expiration</p>



Does not include:

- Samples
- > 1 year expired
- Removed from their original container
- Re-packaged for dispensing
- Generated during patient care
- Refused by a patient



Potentially creditable HW pharmaceuticals do not include:

- Evaluated hazardous waste pharmaceuticals
- Non-empty container residues
- Contaminated PPE
- Spill clean-up



If there is no reasonable expectation of credit, the HW pharmaceutical cannot go to an RD

If an RD receives non-creditable HW pharmaceuticals, it must:

- Prepare an "unauthorized waste report" and send it to the Healthcare facility and to EPA
- Manage the waste appropriately



Non-Creditable HW Pharmaceutical

Non-creditable HW pharmaceuticals includes HW pharmaceuticals that are not eligible for manufacturers credit



Evaluated HW Pharmaceutical

A hazardous HW pharmaceutical that was potentially creditable but has been evaluated by a RD to establish manufacturer credit eligibility and will not be sent to another pharmaceutical reverse distributor for further evaluation



Healthcare

General Requirements

One-time notification as Healthcare Facility

Performance-based training for healthcare workers

CESQGs can opt in with notification



Healthcare Accumulation

Potentially Creditable Pharmaceuticals

No specific labeling

No specific accumulation requirements

No specific time limits



Healthcare Shipping

Potentially Creditable Pharmaceuticals

- Written, advance notice of shipments to RD
- Confirmation of receipt of shipment by RD
- Recordkeeping of shipments/confirmation to/from RD
- Allows common carrier
- HW codes not required for shipment





Healthcare Accumulation

Non-Creditable Pharmaceuticals

- Closed containers secured to prevent access
- Label as "Hazardous Waste Pharmaceuticals"
- One year accumulation limit
- Segregate wastes that can't be incinerated per land disposal restrictions (e.g., arsenic trioxide)
- HW codes not required on accumulation containers



Healthcare Shipping

Non-Creditable HW Pharmaceuticals

- HW transporter required
- Manifesting required



- Must meet U.S. DOT requirements
- HW codes not required on manifest
- "Hazardous waste pharmaceuticals" must be noted in Box 14 of manifest
- Land disposal notice not required but TSD must know codes to treat to LDRs

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Key Healthcare Benefits

Extends 90/180 day accumulation to 1 year

Eliminates pharmaceutical waste counting

Eliminates satellite/accumulation area requirements

Reduces training and documentation requirements

Eliminates LQG biennial reporting

Clarifies ambiguous and overlapping requirements



Reverse Distributor

General Requirements

- Only authorized to accept potentially creditable HW pharmaceuticals
- Must have contingency plan
- Must documented staff training





Reverse Distributor (RD)

General Requirements

- One-time notification as RD
- Maximum of 3 RDs before disposal
- Notification if receive shipment of non-creditable HW pharmaceuticals
- Biennial reporting



Potentially Creditable HW Pharmaceuticals

No specific labeling or container standards

Each Reverse Distributor:

- Must evaluate whether "creditable" under manufacture contract within 21 days or receipt
- Is allowed maximum of 90 day storage



Potentially Creditable HW Pharmaceuticals

Within 90 days of receipt the RD must:

- ✓ Assign credit to healthcare facility AND send to a licensed HW TSDF for treatment or disposal in accordance with "Evaluated HW Pharmaceutical" requirements OR
- ✓ Send to another RD to evaluate credit

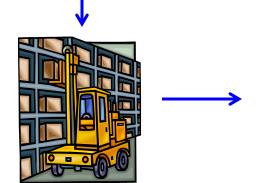


Reverse Distributor

Maximum Transfers Allowed



Maximum additional storage duration is 270 days until TSD disposal in accordance with Land Disposal Restrictions is required.



1st RD can be a manufacturer



2nd RD can be a manufacturer



3rd RD must be a manufacturer



HW TSDF



Potentially Creditable HW Pharmaceutical

Each Reverse Distributor must have:

Inventory of HW pharmaceuticals

Facility security



Evaluated HW Pharmaceutical

- Must designate an on-site accumulation area
- Must conduct and keep a log of weekly inspections
- LQG training for personnel handling evaluated HW pharmaceuticals



Evaluated HW Pharmaceuticals

- Closed containers for liquids or gels
- Wastes that can't be incinerated must be accumulated separately (e.g., arsenic trioxide P012)
- HW codes required prior to transport off-site
- Label as "Hazardous Waste Pharmaceuticals"



Reverse Distributor Shipping

Potentially Creditable HW Pharmaceuticals

- Written, advance notice of shipments to next RD
- Confirmation of receipt of shipment from receiving RD
- Recordkeeping of shipments to RD
- Common carrier allowed
- HW codes not required during shipment







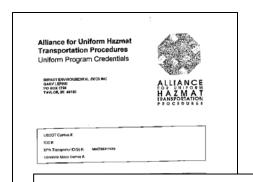
Reverse Distributor Shipping

Evaluated HW Pharmaceuticals

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Key Changes for Michigan

Proposal eliminates current handlers locations that accumulate larger shipment volumes over a year

Secondary locations accepting noncreditable pharmaceuticals must be:

- transfer facility (10 day storage) or
- License hazardous waste TSD



Wrap Up

Federal HW Pharmaceutical Rule proposes to:

- Establish new regulatory framework for HW Pharmaceuticals under 40 CFR, Part 266, Subpart P
- Prohibit sewering of HW Pharmaceuticals from all of healthcare and reverse distribution



Wrap Up

Federal HW Pharmaceutical Rule proposes to:

- Authorize reverse distribution HW pharmaceuticals storage without a license by establishing:
 - Potential Creditable HW Pharmaceuticals
 - Non-Creditable HW Pharmaceuticals
 - Evaluated HW Pharmaceuticals
- Would require Michigan & Florida to abandon their universal waste designation for national consistency



Glimpse of What to Expect

Sites relying on Michigan's universal waste rule can continue to do so until:

- ✓ the federal rules final
- ✓ Michigan promulgates rules to adopt the final rules into the state program under Part 111



Bottom Line

Managing all pharmaceuticals as a universal waste in Michigan, regardless of generator status, will establish procedures that make compliance with the new subpart for healthcare easy!



