

March 20, 2019

**Grand Rapids, Michigan** 



Provide an overview of the hazardous secondary materials (HSM) regulations:

- 2017 rule changes
- HSM legitimacy requirements
- Receiving DEQ approval



#### Hazardous secondary material rule changes:

- Excludes certain materials from being a waste when recycled
- Adopted by EPA 2015 definition of solid waste (DSW)
- Adopted into Part 111, effective April 5, 2017
- Established legitimate recycling criteria





#### **HSM** remains subject to Part 121

- Part 121 shipping document requirements
- Report to DEQ by April 30 of each year
- Emergency response plan, training, etc.
- Act 138 credentialed transporters





# Hazardous Secondary Materials Defined (Rule 104)



A secondary material is a "spent material, by-product, or sludge that, when discarded, would be identified as hazardous waste under Part 2 (Identification and Listing of Hazardous Waste) of these rules"... BUT is excluded when managed to meet the exclusions provided under Part 2 of the rules.





# Hazardous Secondary Materials Part 2 Definition of Waste (Rule 202(6))



Director may determine on a case by case basis that the following are not wastes:

- Hazardous secondary materials reclaimed in a continuous industrial process
- Hazardous secondary materials indistinguishable from a product or intermediate
- Hazardous secondary materials that are transferred for reclamation under Rule 204(1)(aa) and are managed at a verified reclamation facility or an intermediate facility...





# Hazardous Secondary Materials Part 2 Definition of Waste (Rule 202(6))



Hazardous secondary materials transferred for reclamation under Rule 202(6)(f) include those:

- Under generator control (Rule 204(1)(aa))
- Transferred to a verified reclamation facility (Rule 204(1)(bb))
- Transferred to another person for the purpose of remanufacturing (Rule 204(1)(cc))





### Hazardous Secondary Materials Under Generator Control (Rule 204(1)(aa))



A hazardous secondary material (HSM) that is generated and legitimately reclaimed within the U.S. under the control of the generator is excluded from regulation as a hazardous waste if certain requirements provided under the Rule 204(1)(aa) are met.





## Hazardous Secondary Materials Under Generator Control (Rule 204(1)(aa))



HSM "under the generator control" is generated and reclaimed in accordance with <u>ANY</u> of the following conditions:

- ✓ HSM is reclaimed at the generating facility
- ✓ HSM is reclaimed at a different facility but both the generating facility and reclaiming facility are controlled by the same person, and a certification meeting Rule 204(1)(aa)(i)(C) is submitted to DEQ
- ✓ HSM is reclaimed at a different facility that is controlled by the generator and a certification meeting Rule 204(1)(aa)(i)(B) is submitted to the DEQ
- ✓ HSM is generated pursuant to a written contract between a tolling contractor and tolling manufacturer and a certification meeting Rule 204(1)(aa)(i)(D) is submitted to DEQ





# Hazardous Secondary Materials Under Generator Control (Rule 204(1)(aa))



# HSM exclusion *under the generator control also* requires:

- The HSM be contained (Rule 102(r))
- The HSM not be speculatively accumulated (Rule 107(cc))
- Filing of notification of HSM activity (40 CFR 260.42)
- The HSM is not otherwise subject to material-specific management conditions and not be a lead-acid battery
- Maintenance of legitimacy documentation at each HSM handler (Rule 232)
- Emergency preparedness and response planning (Rule 234)







A hazardous secondary material (HSM) that is generated and legitimately reclaimed within the U.S. at a verified reclamation facility is excluded from regulation as a hazardous waste if certain requirements provided under the Rule 204(1)(bb) are met.







- The HSM be contained (Rule 102(r))
- The HSM not be speculatively accumulated (Rule 107(cc))
- The HSM is not otherwise subject to material-specific management conditions and not be a lead-acid battery
- Maintenance of legitimacy documentation at each HSM handler (Rule 232)







- HSM cannot be handled by any other person or facility other than the HSM generator, transporter, intermediate facility, or reclaimer, and while in transport, the HSM cannot be stored for more than 10 days at a transfer facility and must meet US DOT regulations
- HSM generator must arrange for the HSM transport







- HSM generator must maintain off-site shipment records and verification of reclaimer receipt on-site for at least 3 years
- Emergency preparedness and response planning must be in place for all HSM handlers (generator, reclaimer and intermediate facilities (Rule 234)
- HSM reclaimer and any intermediate facilities must maintain records of HSM shipments for at least 3 years







- Intermediate facility must send HSM to the reclaimer designated by generator
- Reclaimer must send confirmation of receipt of HSM to the generator
- Reclaimer and intermediate facility must manage the HSM in a manner that is at least as protective as that employed for raw material and that is contained







- Reclaimer and intermediate shall have financial assurance as per Part 7 of the rules
- Reclaimer and intermediate facility have been granted a variance or operating license issued pursuant to these rules that addresses the HSM.







A hazardous secondary material (HSM) that is generated and legitimately reclaimed within the U.S. by being transferred to another person for the purpose of remanufacturing is excluded from regulation as a hazardous waste if certain requirements provided under the Rule 204(1)(bb) are met.







HSM exclusion for materials generated and transferred another person for the purpose of remanufacturing requires:

- Notification is required for all HSM handlers under 40 CFR 260.42
- HSM must be one or more of the spent solvents listed in Rule 204(1)(cc)(i)(A-R)
- HSM must have originated from using 1 or more of the solvents listed in Rule 204(1)(cc)(i)(A-R) in a commercial grade for reacting, extracting, purifying, or blending chemicals, or for rinsing out the process lines associated with these functions







HSM exclusion for materials generated and transferred another person for the purpose of remanufacturing requires:

- HSM materials must have been used in pharmaceutical, organic chemical, plastics and resins, or paints and coatings manufacturing
- After the HSM are remanufactured, the solvents cannot be used for cleaning or degreasing







The HSM generator must send the HSM solvents only to a remanufacturer who services the pharmaceutical, organic chemical, plastics and resins, or paints and coatings sectors

Once remanufactured, the solvent can only be used for reacting, extracting, purifying, or blending chemicals, or for rinsing out the process lines associate with these activities at the sectors listed above







HSM exclusion for materials generated and transferred to another person for the purpose of remanufacturing requires both the HSM generator and remanufacturer to:

- Notify EPA or DEQ every 2 years per 40 CFR 260.42
- Develop and maintain an up-to-date re-manufacturing plan
- Maintain records of shipment and confirmations of receipt for at least 3 years;
- Store HSM solvents in approved, properly labeled containers;
- Certify the equipment used meets all Clean Air Act requirements;
- Meet the requirements prohibiting speculative accumulations





**Legitimate Recycling (Rule 232)** 



The recycling of HSM for purposes of exclusion or exemption for regulation as a hazardous waste shall be legitimate.

Legitimate recycling must meet the legitimacy provisions established in Rule 232.

If the criteria are not met, it is not legitimate recycling and the material is a waste subject to waste regulation!







- a. The recycling of HSM must provide a useful contribution to the recycling process or to a product or intermediate of the recycling process by meeting one of the following:
  - It contributes as a valuable ingredient to a product or intermediate
  - It replaces a catalyst or carrier in the recycling process
  - It is the source of a valuable constituent recovered in the recycling process
  - It is recovered or regenerated by the recycling process
  - It is used as an effective substitute for a commercial product







- b. The recycling of HSM must produce a valuable product or intermediate by:
  - Being sold to a third party <u>OR</u>
  - Being used by the recycler or generator as an effective substitute for a commercial product or ingredient in the industrial process
- c. The generator and recycler manages the HSM as a valuable commodity







- d. The product of the recycling process must be comparable to a legitimate product or intermediate by meeting one of the following:
  - i. If there is an analogous product or intermediate, the product of the recycling process is comparable to a legitimate product if both of the following are met:
    - A. Not exhibiting a hazardous characteristic per Rule 212 AND
    - B. Nor containing a hazardous constituent (in Appendix VIII of 40 CFR 261) except at levels at or below those in comparable products or at levels widely recognized in commodity standards and specifications







- ii. If there is no analogous product, the product must meet one of the following:
  - A. be a commodity that meets widely recognized commodity standards and specifications <u>OR</u>
  - B. be returned to the original process or processes from which it was generated







- iii. If the product has levels of hazardous constituents that are not comparable to a legitimate product or intermediate, the recycling is legitimate if the following requirements are met:
  - A. The recycler conducts an assessment showing why the recycling is legitimate <u>AND</u>
  - B. The recycling is demonstrated to be legitimate because there is a lack of exposure from toxics in the product, lack of bioavailability of the toxics in the product, or other relevant considerations showing the product does not contain levels of hazardous constituents that are a risk <u>AND</u>





**Legitimate Recycling (Rule 232)** 



If the product has levels of hazardous constituents that are not comparable to a legitimate product or intermediate, the recycling is legitimate if the following requirements are met continued...

C. The person performing the recycling prepares documentation demonstrating why the recycling is still legitimate that include a certificate statement saying that the recycling is legitimate and it is maintained on site for at least 3 years after the recycling operation has ceased





# Hazardous Secondary Material Speculative Accumulation

#### **HSM** cannot be speculatively accumulated:

- At least 75 percent of the material (by volume or weight) must be recycled, or transferred to another site meeting the HSM exclusion for recycling within the calendar year
- Must keep inventory records to verify recycled materials are not speculatively accumulated
- See Part 111 "Speculative Accumulation" definition,
   Rule 107(cc)





# **Contained Defined for Hazardous Secondary Materials**

"Contained" for HSM means a unit, including land-based units, which are:

- In good condition, designed to prevent releases, and has no leaks or release other than those specifically authorized through a permit
- Properly labeled or otherwise has a system, such as a log, to immediately identify the HSM in the unit
- Compatible with other HSM placed in the unit and the materials used to construct the unit





## **Notification of HSM Activity**

- Determine if one of the above-listed exclusions apply for your facility.
- If so, submit a request that addresses each applicable component of that exclusion.
- Included with the request must be a summary as to the legitimacy of the exclusion. Each applicable component of Rule 232 must be addressed.
- Include with the submittal a copy of DEQ form EQP 5150 Site Identification Form with associated addendum.
- DEQ will respond in writing with approval or list of deficiencies that should be corrected.







Michigan Department of Environmental Quality
Waste Management and Radiological Protection Division

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## **EQP 5150 Form**



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ONLY FILL OU	T THIS FORM IF:			
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# **EQP 5150 Form Addendum for Hazardous Secondary Materials**



EQP5150 (01/9/19)

